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U. S. D. A.

SUMMARY OF REGISTERED
AGRICULTURAL PESTICIDE CHEMICAL USES

(2nd Edition)

Supplement IV

This supplement reflects changes and additions issued in preliminary notices numbered 66-135 through 67-103, plus numbers 67-109 through 67-114.

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CURRENT SERIAL RECORDS

Pesticides Regulation Division
Agricultural Research Service
United States Department of Agriculture

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This Supplement IV to the second edition of the U.S.D.A. Summary of Registered Agricultural Pesticide Chemical Uses, which is a compilation of agricultural pesticide chemical uses registered with the U.S. Department of Agriculture, reflects additions, deletions, and revisions. The date of issue appears in the lower left-hand corner and the page it replaces is indicated in the lower right-hand corner.



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USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN*

PRINCIPAL FORMULATIONS: Emulsifiable concentrate containing 2 lbs. per gallon; 50% wettable powder; 75% wettable powder for seed treatment; 2.5% dusts and granular mixtures; 0.1% fertilizer mixtures

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Bananas		3.0	Apply only to surface of ground around trees. When sprays are used, apply coarse spray at low pressure. Avoid contact with leaves.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Blackeyed peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Broccoli	0.25	0.5	14 days.
Brussels sprouts	0.25	0.5	14 days.
Bush & Vine Fruits:			
Blackberries		5.0	Preplanting soil application or when no fruit is present. Double dosage on peat or muck soils.
Blueberries			
Boysenberries			
Cranberries	0.1		
Currants		0.25	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Dewberries			
Gooseberries			
Grapes	0.1		
Huckleberries			
Loganberries			
Raspberries			
Strawberries	0.1		
Youngberries			
Cabbage	0.25	0.5	21 days.
Cantaloupes	0.1	0.5	7 days.
Cauliflower	0.25	0.5	21 days.

*1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo-exo-5,8-dimethanonaphthalene

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Replaces page issued 10-1-66

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cherries	0.1	0.25	21 days.
Citrus Fruits:			
Grapefruit	0.25	0.25	Foliage application, or wet or dry bait formulation. Do not apply within 30 days of harvest.
Kumquat			
Lemons	0.25		
Limes	0.25		
Oranges	0.25	5.0	Soil application. Do not contaminate fruit. Double dosage on peat or muck soils when no fruit is present.
Tangerines	0.25		
Tangeloes			
Corn			
Field	0	2.0	Broadcast soil application during early summer for control of Hippolates eye gnats. Mix insecticide with top 3 inches of soil.
Pop			
Sweet			
Corn (seed)		2.0 oz./bu.	Do not use as food or feed.
Cotton		1.5	Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.
		2.0	Broadcast soil application during early summer for control of Hippolates eye gnats. Mix insecticide with top 3 inches of soil.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	0.1	0.25	21 days.
Cucumbers	0.25	0.5	7 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Deciduous Fruits and Nuts:			
Almonds		5.0	Soil application when no fruit is present.
Cashews			Double dosage on peat or muck soils.
Cherries	0.1		
Chestnuts		0.25	Wet or dry bait formulations. Apply to
Dates			soil around base of plant. Do not con-
Figs			taminate edible parts. Do not apply
Filberts			within 30 days of harvest.
Hazelnuts			
Hickory nuts			
Nectarines	0.1		
Olives			
Peaches	0.1		
Pecans			
Persimmons			
Plums	0.1		
Pomegranate			
Prunes	0.1		
Walnuts			
Eggplants	0.1	0.5	3 days.
Field, Fiber & Forage Crops:			
Buckwheat		5.0	Preplanting soil application or at time
Corn	0		of planting or transplanting. Double
Cotton			dosage on peat or muck soils.
Flax			
Hops		0.25	Wet or dry bait formulations. Apply to
Popcorn	0		soil around base of plant. Do not con-
Safflower			taminate edible parts. Do not apply
Sugarcane			within 30 days of harvest.
Flax		0.25	Do not feed to dairy animals within 28
			days after treatment. Do not feed to
			animals being finished for slaughter.
Grain Crops (seed)		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Grapefruit	0.25	0.25	30 days.
Grapes	0.1	0.25	7 days.
Lemons	0.25	0.25	30 days.
Lettuce	0.25	0.5	30 days.
Lima Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Limes	0.25	0.25	30 days.
Mangoes	0.1	0.25	21 days.
Melons	0.1	0.5	7 days.
Mint		5.0	Preplanting soil application or just prior to fall or spring discing or harrowing in old plantings.
Nectarines	0.1	0.25	21 days.
Oats (seed)		2.0 oz./bu.	Do not use as food or feed.
Oranges	0.25	0.25	30 days.
Peaches	0.1	0.25	21 days.
Peanuts (seed)		2.0 oz./bu.	Do not use as food or feed.
Peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Peppers	0.1	0.5	3 days.
Pimentoes	0.1	0.5	3 days.
Pineapples	0.1	2.0	30 days. Do not feed husks to meat or dairy animals.
		10.0	Preplanting soil treatment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes	0.1	0.5	No limitations.
Plums	0.1	0.25	21 days.
Prunes	0.1	0.25	21 days.
Pumpkins	0.1	0.5	7 days.
Rice (seed)		4.0 oz./bu.	Do not use as food or feed.
Rye (seed)		2.0 oz./bu.	Do not use as food or feed.
Safflower (seed)		2.0 oz./100 lbs.	Do not use treated seed for food, feed, or oil.
Sorghum (grain & cane)	0	0.125	21 days. Single application.
		0.25	30 days. Single application.
		3.0	Preplanting soil application.
Sorghum (seed)		2.0 oz./bu.	Do not use as food or feed.
Soybeans (seed)		2.0 oz./bu.	Do not use as food, feed, or oil.
Squash			
Summer	0.25	0.5	7 days.
Winter	0.1	0.5	7 days.
Sweet potatoes	0.1	0.5	No time limitations.
Tangerines	0.25	0.25	30 days.
Tomatoes	0.1	0.5	1 day.
Tropical Fruits:			
Avocados		5.0	Soil application when no fruit is present.
Guavas			Double dosage on peat or muck soils.
Mangoes	0.1		
Papayas		0.25	Wet or dry bait formulations. Apply to
Passion fruit			soil around base of plant. Do not con-
			taminate edible parts. Do not apply
			within 30 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables:		lbs. actual/A.	
Asparagus	0.1	5.0	Preplanting soil application, at time of planting or transplanting, or before edible parts start to form. Do not apply to land which will be planted in potatoes.
Beans	0		
Broccoli	0.25		
Brussels sprouts	0.25		
Cabbage	0.25		
Cantaloupes	0.1	0.25	
Cauliflower	0.25		
Celery	0.1		
Corn	0		
Cucumbers	0.25		
Eggplants	0.1		Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Lettuce	0.25		
Melons			
Okra			
Peppers	0.1		
Pimientos	0.1		
Pumpkins	0.1		
Squash (summer)	0.25		
Squash (winter)	0.1		
Tomatoes	0.1		
Watermelons	0.1		
Wheat (seed)		2.0 oz./bu.	Do not use as food or feed.
Agricultural Premises:			
Greenhouse		6.0	Preplanting soil application or at time of planting or transplanting.
Imported Fire Ant Control		2.0	Apply to uncultivated land or when no food crops are present. Repeat in 10 days if necessary.
		0.25% in water	Mound treatment. Thoroughly saturate each mound.
		1.5% dust	Mound treatment. Open mound and mix 2 cups of dust with soil. Apply a band of dust 2 ft. wide around the base of mound.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ATRAZINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Pineapples		lbs. actual/A. 6.4	Broadcast application immediately after planting or after plant crop harvest is completed.
		1.6	Apply at 1-2 month intervals. Do not apply more than 30 lbs. per acre per crop cycle. Do not apply within 160 days of fruit harvest. If forage is to be fed to livestock, allow 250 days between last application and feeding.
Sorghum		3.0	Preemergence or early postemergence application before weeds are 1 1/2 inches high. May incorporate 1/2 to 1 1/2 inches deep. Do not plant any crop other than corn or sorghum on treated area within 16 months after application. Do not graze or feed forage from treated area within 60 days after application.
		4.0	<u>Gulf States Only.</u> Preemergence or early postemergence application before weeds are 1 1/2 inches high. May incorporate 1/2 - 1 1/2 inches deep. Do not plant treated soil to any crop other than those on registered label for 18 months after application. Do not graze or feed forage for 90 days after application.
Sugarcane		4.0	Preemergence application at time of planting or ratooning and before weeds or cane have emerged. or Postemergence application. Apply once as overall treatment or twice between rows as directed spray. Do not apply more than 10 lbs./A./season. Apply no later than "close in" after planting, ratooning, or stubble crop.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

BACILLUS THURINGIENSIS BERLINER

PRINCIPAL FORMULATIONS: Dust containing 5 billion viable spores per gram of product; wettable powder containing 25 billion viable spores per gram of product; aqueous suspension containing 30 billion spores per gram of product.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa	Exempt	4.5×10^{13} viable spores/ acre	No time limitations.
Artichokes	Exempt	10.8×10^{13} viable spores/ acre	No time limitations.
Bananas	Exempt	5.5×10^{13} viable spores/ acre	No time limitations.
Beans	Exempt	10.8×10^{13} viable spores/ acre	North Carolina and Virginia only. No time limitations.
Broccoli	Exempt	10.8×10^{13} viable spores/ acre	No time limitations.
Cabbage	Exempt	10.8×10^{13} viable spores/ acre	No time limitations.
Cauliflower	Exempt	10.8×10^{13} viable spores/ acre	No time limitations.
Celery	Exempt	10.8×10^{13} viable spores/ acre	No time limitations.
Collards	Exempt	8.6×10^{13} viable spores/ acre	No time limitations.
Cotton	Exempt	5.5×10^{13} viable spores/ acre	No time limitations.
Grapes	Exempt	1.2×10^{14} viable spores/ acre	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

BASIC COPPER CARBONATE

PRINCIPAL FORMULATIONS: Wettable powders and dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs./100 gals.	
Apples	Exempt	1.5	Full bloom, calyx, or late bloom.
Apricots	Exempt	4 to 5	Dormant, red bud early or full bloom, or post-harvest in the late fall.
Citrus	Exempt	0.5 to 1.5	Early season or late fall, or with safeners in summer.
Cherries	Exempt	4 to 5	Popcorn, full bloom or petal fall.
Nectarines	Exempt	4 to 5	Nov. 15 to Dec. 15 or dormant in early spring.
Olives	Exempt	3 to 4	Late fall. Wash fruit after picking.
Peaches	Exempt	4 to 5	Nov. 15 to Dec. 15 or dormant in early spring.
Walnuts	Exempt	2 to 3	2 sprays in early bloom period, with 3rd if needed after bloom.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

BASIC ZINC SULFATE

PRINCIPAL FORMULATIONS: 20% and 55% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Peaches		lbs. metallic zinc equiv./A. 7.7	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

BENEFIN*

PRINCIPAL FORMULATIONS: 19.4% emulsifiable concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Lettuce (seeded)		lbs. actual/A. 1.125	Preplant soil incorporation, 2 to 3 weeks before seeding to planting time. Do not feed forage from treated fields to livestock. Do not plant wheat, barley, rye, grass or onions within 10 months after application. Do not plant milo, corn, oats, beets or spinach within 12 months after application.
Peanuts	0.05	1.125	Preplant soil incorporation, 0-3 weeks before planting. Do not graze treated fields or feed treated forage to livestock. Do not use peanut hulls for food or feed. Do not plant wheat, barley, rye, grass or onions within 10 months after application. Do not plant milo, corn, oats, beets or spinach within 12 months after application.

*N-butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-BIS (ISOPROPYLAMINO)-6-METHYL THIO-s-TRIAZINE*

PRINCIPAL FORMULATIONS: 80% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		lbs. actual/A.	
		0.64	Postemergence application as a directed spray when weeds are less than 2 inches tall and cotton is 6 inches tall.
		2.4	Preplanting soil incorporation. Do not graze or feed forage from treated areas to livestock. or Preemergence soil application. Do not graze or feed forage from treated areas to livestock. or Apply at time of last cultivation as a directed spray. Do not graze or feed forage from treated areas to livestock.

*Proprietary name: Prometryne
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USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-BIS (3-METHOXYPROPYLAMINO)-6-METHYL THIO-s-TRIAZINE

PRINCIPAL FORMULATIONS: 25.5% emulsion concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Safflower		lbs. actual/A. 0.75	Post-emergence application after rosette stage and up to six weeks after planting. Do not apply more than once per year.

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BROMACIL*

PRINCIPAL FORMULATIONS: 80% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Citrus:	0.1		
Grapefruit Orange		8.0	Use restricted to Texas. Single directed spray spot treatment to weeds in groves established 2+yrs. any time during growing season. Do not treat same area more than 2 consecutive years. Do not plant to any crop within 2 years of last application except orange and grapefruit which may be planted after 1 year. Do not apply to home citrus or near root zones of desirable plants.
Grapefruit Lemon Orange		6.4	Use restricted to Arizona and California. Single spray spot treatment to weeds in groves established 2 years any time from winter to early summer. Do not treat same area more than 2 consecutive years. Do not plant to any crop within 2 yrs. after last application except oranges, grapefruits, and lemons which may be planted after 1 yr. Do not apply to home citrus or around root zones of desirable plants.
Pineapple	0.1	4.8	Use restricted to Hawaii. Single overall application immediately after planting. Do not replant to any crop other than pineapple within 3 yrs. of last application.

*5-bromo-3-sec-butyl-6-methyluracil

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BUTOXY POLYPROPYLENE GLYCOL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: Animal Pens Barns Dairy Barns Elevators Grain Bins Milk Rooms Poultry Houses etc.		1.4 lbs./ 1000 sq. ft. in water 10.0% in water 8.6% in oil or water 50.0%	Apply liberally to all interior surfaces with special emphasis on cracks and crevices, etc. Usually formulated with other ingredients. Apply liberally to exterior surfaces of various premises. Usually formulated with other ingredients. Apply as a mist spray. Fill closed area with mist and keep closed for 10 minutes. Usually formulated with other ingredients. Do not contaminate milk or milking equipment. Apply by a fogging machine or microsol applicator inside buildings. Keep buildings closed for 10 minutes. Usually formulated with other ingredients. Do not contaminate milk or milking equipment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

B-BUTOXY B'-THIOCYANO-DIETHYL ETHER*

PRINCIPAL FORMULATIONS: Oil sprays and powders. Often formulated with other insecticides.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef Cattle Dairy Cattle Goats Poultry Sheep Swine Agricultural Premises: Barns Dairy Barns Grain Bins Grain Elevators Hog Pens Milk Rooms Poultry Houses Sheep Folds Etc.		Thiocyanates 3.64% (in oil) 3.5% (in oil) 1.5% (powder) 4.0% (in oil)	Apply as a mist spray to outer hair at the rate of 2.0 ounces per animal the size of an adult cow. Do not wet hide of animal. Apply 2.5 ounces per animal the size of an adult cow and rub into hair. Do not repeat application within three weeks. Apply thoroughly to animal for control of lice. Apply as a space spray. Fill room with mist and keep closed for 10 minutes. Do not contaminate feed, milk, milk handling equipment, or drinking water.

*Proprietary name: "Lethane 384" (containing 54.5% B-butoxy B'-thiocyano-diethyl ether, and 45.5% petroleum distillate.)

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CAPTAN*

PRINCIPAL FORMULATIONS: 25%, 50%, 60% and 80% wettable powder;
75% wettable powder (seed treatment only); 5.0%, 7.5%, 10.0%
and 20.0% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	100	8.0	Five weeks after petal fall.
		16.0	12 days. Do not feed treated hulls to dairy animals or animals being finished for slaughter.
Apples	100	8.0	No time limitations.
		0.12% solution	Postharvest spray or dip.
Apricots	100	5.0	Cover sprays--no time limitations.
		0.12% solution	Postharvest spray or dip.
Asparagus		1.5 lbs./100 gals. water	Preplanting root dip.
Avocados	100	10.0	No time limitations.
Barley		1.2 oz./100 lbs.	Seed treatment (dry).
		1.9 oz./100 lbs.	Seed treatment (slurry).
			Do not use treated seed for food or feed.
Beans (dry and succulent)	100	6.0	Preplanting soil treatment.
		3.0	No time limitations.
		1.9 oz./100 lbs.	Seed treatment (dry).
		1.5 oz./100 lbs.	Seed treatment (slurry).
			Do not use treated seed for food or feed.
Beets, garden (roots & tops)	100	1.5	No time limitations.
		3.3	Preplanting soil treatment.
Blackberries	100	3.0	No time limitations.

*N-trichloromethylmercapto-4-cyclohexene-1:2-dicarboximide

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CAPTAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. Actual/A.	
Blueberries	100	2.5	No time limitations.
Broccoli	100	14.0	Preplanting soil application only.
Brussels sprouts	100	14.0	Preplanting soil application only.
Cabbage	100	14.0	Preplanting soil application only.
Cantaloupes	100	3.8	No time limitations.
		0.25% solution	Post-harvest spray or dip.
		7.5	Preplanting soil treatment only.
Carrots (Roots)	100	3.0	No time limitations.
Cauliflower	100	14.0	Preplanting soil application only.
Celery	100	2.0	No time limitations.
		6.5	Plant bed treatment.
Cherries	100	10.0	No time limitations.
		0.125% solution	Post-harvest dip.
Citrus Fruits:			
Grapefruit	100	10.0	No time limitations.
Lemons	100		
Limes	100	0.12% solution	Post-harvest dip or spray. Do not feed raw citrus byproducts bearing captan residues to dairy animals or animals being finished for slaughter.
Oranges	100		
Tangeloes	100		
Tangerines	100		
Oranges	100	5.0	Apply as after bloom spray from 2/3 petal fall until fruit reaches approximately 1/2 inch in diameter. Do not feed treated raw citrus byproducts to livestock.
Tangeloes	100		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CAPTAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Soybeans		lbs. actual/A.	
		6.0	Soil treatment at planting time.
		2.0 oz./100 lbs	Seed treatment (dry).
		1.3 oz./100 lbs	Seed treatment (slurry). Do not use treated seed for food, feed, or oil.
Spinach	100	3.5	Apply to furrow at time of planting.
		4.0	No time limitations.
		6.0	Preplanting soil treatment.
Squash (summer and winter)	100	3.8	No time limitations.
Strawberries	100	3.8	No time limitations.
Sunflowers		0.5 oz./100 lbs.	Seed treatment (dry). Do not use treated seed for food, feed, or oil.
Tomatoes	100	5.0	No time limitations.
		7.5	Preplanting soil treatment.
Field and greenhouse	100	0.5 pint of 0.12 solution per plant	Transplant water.
Watermelons	100	3.8	No time limitations.
Wheat		1.2 oz./100 lbs.	Seed treatment (dry).
		2.0 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBARYL*

PRINCIPAL FORMULATIONS: 50% and 80% wettable powder; 25 and 50% dust base; 5% dust; 20% granular; 4% and 5% baits

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	100	1.6	No time limitations.
Almonds	10 (whole almonds)	8.0	No time limitations.
	40 (almond hulls)		
Apples	10	12.0	1 day.
Apricots	10	8.0	3 days.
Asparagus	10	2.0	Apply during cutting season. Do not repeat application within 3 days. Do not apply within 1 day of harvest.
		4.0	Postharvest application to ferns and brush growth.
Bananas	10	1.1	Single application. No time limitations.
Beans	10	2.125	No time limitations.
Beets	5 (roots) 12 (tops)	2.0	Do not apply within 3 days of harvest. Do not apply within 14 days of harvest, if tops are to be used as food or feed.
Blackberries	12	2.0	7 days.
Blueberries	10	2.0	No time limitations.
Boysenberries	12	2.0	7 days.
Broccoli	10	2.0	3 days.
Brussels sprouts	10	2.0	3 days.

*1-naphthyl n-methylcarbamate
Proprietary name: "Sevin"

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CARBARYL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cabbage	10	2.0	3 days.
Cabbage (Chinese)	10	2.0	14 days.
Carrots	10	2.0	No time limitations.
Cauliflower	10	2.0	3 days.
Cherries	10	6.0	1 day.
Citrus	10	1.25 lbs./ 100 gals.	5 days.
Clover	100	1.5	No time limitations.
Collards	12	2.0	14 days.
Corn	100 (forage)	2.0	No time limitations.
	5 (kernels & cob)	3.0	Only at planting time. Use in 5 to 7 inch band over row as soil application.
Cotton	5.0 (on cot- tonseed)	2.5	No time limitations.
	100 (on cot- ton for- age)		
Cowpeas	5.0 (peas)	2.0	No time limitations.
	100 (forage)		
Cranberries	10	3.0 (spray) 4.0 (dust)	1 day.
Cucumbers	10	1.0	No time limitations.
Dandelion	12	2.0	14 days.

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CARBARYL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Dewberries	12	2.0	7 days.
Eggplant	10	4.0	No time limitations.
Endive (Escarole)	10	2.0	14 days.
Filberts	5	5.0	No time limitations.
	1 (in nut meat with shells removed)		
Grapes	10	3.0	No time limitations.
Grapefruit	10	1.25 lbs./ 100 gals.	5 days.
Grass	100 (grass & hay)	1.5	No time limitations.
Horseradish	5	2.0	3 days.
Kale	12	2.0	14 days.
Kohlrabi	10	2.0	3 days.
Lettuce (Head)	10	2.0	3 days.
Lettuce (Leaf)	10	2.0	14 days.
Loganberries	12	2.0	7 days.
Melons	10	1.0	No time limitations.
Mustard Greens	12	2.0	14 days.
Nectarines	10	8.0	3 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBON TETRACHLORIDE

PRINCIPAL FORMULATIONS: Technical material, employed as a solvent, and usually in mixtures containing other active ingredients

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Commodity Fumigation			
Beans (Dry)		2.0 gals./ 1000 bu.	Commodity treatment in bulk bins with fumigant mixtures containing ethylene dichloride or other ingredients. 72 hours exposure or more usually needed.
		1 qt./ 1000 cu. ft.	Treatment in a fumigation chamber with fumigant mixtures containing ethylene dichloride or other ingredients. 12-24 hours exposure at 75 degrees F. and above usually needed.
Grain:			
Barley	Exempt	10 gals./	No time limitations.
Corn	Exempt	1000 bu.	
Oats	Exempt		
Rice	Exempt		
Rye	Exempt		
Sorghum	Exempt		
(Milo)			
Wheat	Exempt		
Peanuts		2.0 gals./ 1000 bu.	Commodity treatment in bulk bins with fumigant mixtures containing ethylene dichloride or other ingredients. 72 hours exposure or more usually needed.
Peas (Dry)		2.0 gals./ 1000 bu.	Commodity treatment in bulk bins with fumigant mixtures containing ethylene dichloride or other ingredients. 72 hours exposure or more usually needed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBON TETRACHLORIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef Cattle Dairy Cattle Goats Sheep Swine Agricultural Premises: Corrals Dairy Barns Grain Bins Granaries Milk Rooms Poultry Houses Mushroom Houses		25% (with mineral oil and pine tar) 2 pints/1000 sq. ft. 1/2 pint of 5% spray solution per standard (64 foot) double house	Use in small surface areas and shallow wound cavities as screwworm remedy. Spray application in mixtures with other insecticidal toxicants as space and residual sprays. Do not contaminate feed, food or equipment. In grain storage areas it is advisable to clean out and dispose of dust and grain remnants before spraying. Repeat as necessary. Applications made with fog generators for mushroom fly control, in mixtures with other insecticidal toxicants.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHION*

PRINCIPAL FORMULATIONS: 43.7% emulsifiable concentrate; 25% wettable powder; 2%, 3%, and 4% dusts; 10% granular; liquid concentrate containing 0.125 lbs./gal.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	5.0 (fresh forage & hay)	1.0	Do not apply more than once between cuttings. Do not graze or cut for hay within 28 days after application.
Almonds	10.0 (on hulls)	2.5 + 160.0 lbs. of oil in water	Do not apply within 7 days of harvest if hulls are to be used as feed.
		1.8 (dust)	Do not apply within 7 days of harvest if hulls are to be used as feed.
		5.0	Apply 2 weeks after petal fall. Do not feed treated hulls to livestock.
Apples	0.8	1.25	30 days.
		4.5	Delayed dormant spray.
Apricots	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Beans (dry)	0.8 (beans) 5.0 (vines)	3.5	Use only on beans to be marketed as shelled dry beans. Do not feed treated vines or hulls to livestock.
		0.6 (dust) 0.5 (spray)	Do not apply more than twice per season. Do not graze or cut vines for hay within 21 days after application.
Beans (succulent) Snap Lima	0.8 (beans) 5.0 (vines)	0.75 (spray) 1.2 (dust)	7 days. Do not feed treated forage to livestock.
		0.6 (dust) 0.5 (spray)	Do not apply within 7 days of harvest. Do not apply more than twice per season. Do not graze or cut vines for hay within 21 days after application.

*O,O-diethyl S-p-chlorophenylthiomethyl phosphorodithioate
Proprietary name: "Trithion"

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CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beets	0.8 (on tops & roots)	0.5 (spray) 1.2 (dust)	21 days if tops are to be used as food or feed.
Blackberries		1.0	Post-harvest application only.
Cantaloupes	0.8	1.0 (spray) 1.2 (dust)	5 days.
Cherries	0.8	1.8 (dust)	30 days.
		2.0 + 128.0 lbs. of oil in water	30 days.
Citrus:			
Grapefruit	2	5.0 + 160	30 days.
Lemons	(fruit)	lbs. of oil	
Limes		in water	
Oranges	10	2.5	No time limitations. Allow 30 days between applications.
Tangelos	(dehy-		
Tangerines	drated pulp & meal)	3.75	14 days. Allow 30 days between applications.
Clover	5.0 (fresh forage & hay)	1.0	Do not apply more than once between cuttings. Do not graze or cut for hay within 28 days after application.
Corn	0.2 (kernels & cobs with husks removed)	1.0	Do not apply more than once per season. Do not graze or cut for forage within 21 days after application.
	5.0 (forage)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton	0.2 (in seed)	1.0	Do not graze dairy or meat animals in treated fields.
Crabapples	0.8	1.25	30 days.
Cranberries		1.0	Postharvest application only.
Cucumbers	0.8	1.0	7 days.
Currants		1.0 (spray)	Postharvest application only.
Eggplants	0.8	1.0 (spray) 1.2 (dust)	7 days.
Figs	0.8	2.5	7 days.
Gooseberries		1.0	Postharvest application only.
Grapes	0.8	0.5 (spray) 1.0 (dust)	30 days.
Nectarines	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Olives	0.8	9.0 + 288.0 lbs. of oil in water	60 days.
Onions	0.8 (dry or green)	2.0	Soil application only to furrow at planting time.
Peaches	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Pears	0.8	1.25	30 days.
Peas	0.8	0.75 (spray) 1.2 (dust)	7 days. Do not feed treated forage to livestock.

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CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pecans		2.5	Do not apply after husks open.
Peppers	0.8	1.0 (spray) 1.2 (dust)	7 days.
Pimientos	0.8	1.0 (spray) 1.2 (dust)	7 days.
Plums	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Potatoes (white)		1.0 (spray) 1.2 (dust)	No time limitations.
Prunes	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Quinces	0.8	1.25	30 days.
Raspberries		2.0	Postharvest application as a drench to the crown of plants.
Sorghum	2.0 (grain) 5.0 (forage)	1.0	Do not apply more than once per season. Do not graze or cut for forage within 21 days after application.
		0.5	Do not graze or cut for forage within 21 days after application. Do not apply more than twice per season.
Soybeans	0.8	0.75 (spray) 1.2 (dust)	7 days. Do not feed treated forage to livestock.
Spinach	0.8	0.5 (spray) 1.2 (dust)	21 days.
Squash Summer	0.8	1.0	7 days.

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CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Strawberries	0.8	lbs. actual/A. 0.5 (spray) 1.2 (dust)	3 days.
Sugar beets	5.0 (tops & roots)	1.0 1.0	14 days. Apply to furrow at time of seeding.
Tomatoes	0.8	1.0 (spray) 1.2 (dust)	7 days.
Walnuts		2.0	Do not apply after husks open.
Watermelons	0.8	1.0 (spray) 1.2 (dust)	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CDA*

PRINCIPAL FORMULATIONS: 47.7% and 85% emulsifiable concentrates; 20% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. Actual/A.	
Beans (dry, lima, and snap)		4	Preemergence application.
Cabbage		4	Preemergence application to direct seeded crop.
		6	Apply as directed spray immediately after transplanting.
Celery (Florida only)		4	Apply 2-3 days after transplanting and again three weeks after transplanting.
Corn		5	Preemergence application.
Onions		6.0	Preemergence application to direct seeded crop just before onions emerge or soon after transplanting.
		6.0	Post-emergence application after three true leaves have developed. Do not apply on green onions. Do not apply within 45 days of harvest.
			or Post-emergence granular application after three true leaves have developed and repeat at weekly intervals. Do not apply to green onions. Do not apply granular formulations within 30 days of harvest.
Peas (canning)		4	Preemergence application.
Potatoes		4.0	Apply to freshly tilled soil immediately after last cultivation or hilling.
		3.0	Preemergence application immediately after planting. Use in combination with CDEC.

*2-chloro-N,N-diallylacetamide; proprietary name: "Randox"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLORDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peas			
Seed		2.0 oz./bu.	Do not use as food or feed.
Peppers	0.3	2.0	Do not apply after edible parts start to form.
Pineapple	0.3	2.0	Do not feed bran or husks to livestock.
		10.0	Soil treatment when no fruit is present.
Plums	0.3	8.0	30 days.
Potatoes	0.3	1.5	No time limitations.
		10.0	Preplanting broadcast soil application, or at time of planting.
		3.0	30 days. Post-emergence band soil application.
		1.0	Wet or dry bait application.
Quinces	0.3	8.0	30 days.
Radishes	0.3	2.0	Do not apply after edible parts start to form.
Raspberries	0.3	2.0	Apply only before fruit starts to form or after harvest.
Rice		3.0	Do not apply after heads start to form. Do not graze treated forage. No restriction on use of grain.
Rice Seed		2.0 oz./bu.	Do not use as food or feed.
Rutabagas	0.3	2.0	Do not apply later than 2 weeks after seedlings emerge.
Rye		3.0	Do not apply after heads start to form. Do not graze treated forage. No restriction on use of grain.

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CHLORDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Rye		lbs. actual/A.	
Seed		2.0 oz./bu.	Do not use as food or feed.
Sorghum			
Seed		2.0 oz./bu.	Do not use as food or feed.
Soybeans		2.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. No restrictions on use of thrashed beans.
Soybeans			
Seed		2.0 oz./bu.	Do not use as food or feed.
Strawberries	0.3	2.0	Do not apply after fruit begins to form.
Tomatoes	0.3	5.0	Do not apply after fruit begins to form.
Tropical fruits:			
Avocados		10.0	Soil application when no fruit is present.
Bananas			
Guavas			
Mangoes		1.0	Wet or dry bait formulations.
Papayas	0.3		
Passion fruit			
Turnips	0.3	2.0	Do not apply after edible parts begin to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLORDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Vegetables:			
Asparagus		10.0	Preplanting soil application or at time of planting or transplanting.
Beans	0.3		
Beets	0.3		
Blackeyed peas	0.3	1.0	Wet or dry bait formulations. Do not contaminate edible parts.
Broccoli	0.3		
Brussels sprouts	0.3		
Cabbage	0.3		
Cantaloupes	0.3		
Cauliflower	0.3		
Celery	0.3		
Collards	0.3		
Corn	0.3		
Cowpeas	0.3		
Cucumbers	0.3		
Eggplants	0.3		
Endive			
Garlic			
Horseradish			
Kale	0.3		
Kohlrabi	0.3		
Leeks			
Lettuce	0.3		
Melons	0.3		
Mustard greens			
Okra	0.3		
Onions	0.3		
Parsnips			
Peas	0.3		
Peppers	0.3		
Pimentoes	0.3		
Pumpkins			
Radishes	0.3		
Rutabagas	0.3		
Salsify			
Shallots			
Spinach			
Squash (summer)	0.3		
Squash (winter)	0.3		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLORDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (Cont.)		lbs. Actual/A.	
Sweet Potatoes	0.3	10.0	Preplanting soil application or at time of planting or transplanting.
Swiss Chard			
Tomatoes	0.3		
Turnips	0.3	1.0	Wet or dry bait formulations. Do not contaminate edible parts.
Watermelons	0.3		
Velvet Beans		2.0	Do not feed treated vines and pods to dairy animals or animals being finished for slaughter.
Vetch		2.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Wheat		3.0	Do not apply after heads start to form. Do not graze treated forage. No restriction on use of grain.
Wheat			
Seed		2.0 oz./bu.	Do not use as food or feed.
Agricultural Premises:			
Animal Pens		3.0% in oil or water	Use as a residual surface spray. Do not apply to feedstuffs. Do not contaminate feed or drinking water.
Barns			
Doxes			
Cartons			
Empty Storage Bins		6.0%	Dust. Thorough application to interior and exterior surfaces. Do not apply to feedstuffs. Do not contaminate feed or drinking water.
Sacks			
Storage Crates (excluding dairy barns and poultry houses)			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2-CHLORO-1-(2,4-DICHLOROPHENYL) VINYL DIETHYL PHOSPHATE

PRINCIPAL FORMULATIONS: 10% granular; 21.1% emulsifiable concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn Field		2.0	Soil application to furrow at time of planting.
		1.0	Band soil application at time of last cultivation.
Agricultural Premises:			
Barns (including dairy barns)		0.6% (water spray)	Apply one gallon per 500-1000 sq. ft. Remove livestock before spraying. Do not contaminate feed, water troughs and feed-stuffs.
Feed lots Around feed troughs			
Manure piles			
Poultry Houses		0.32% (water spray)	Apply to poultry droppings at rate of one gallon per 25 sq. ft. Do not contaminate feed or foodstuffs.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLOROFORM

PRINCIPAL FORMULATIONS: Fumigant mixture containing 73.2% chloroform and 26.8% carbon disulfide

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Commodity Fumigation			
Grain:			
Barley	Exempt	8.0 gals./ 1000 bu.	Apply to grain in storage. No time limitations.
Corn	Exempt		
Oats	Exempt		
Popcorn	Exempt		
Rice	Exempt		
Rye	Exempt		
Sorghum	Exempt		
Wheat	Exempt		
Animals:			
Beef Cattle		50.0% screw-worm treatment	Formulated with other ingredients. Apply locally to wounds, cuts, scratches, etc. Repeat as necessary until wounds heal. Apply in and around ears for tick control.
Dairy Cattle			
Goats			
Sheep			
Swine			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2-CHLORO-N-ISOPROPYLACETANILIDE

PRINCIPAL FORMULATIONS: 65% and 80% wettable powder; 20% and 25% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn (field)		5	Preemergence. Do not graze or feed forage from treated areas.
Corn (sweet)	.1 (kernel and cob without husk)	5	Preemergence. Do not graze or feed forage from treated areas.
Cotton	.1 (cotton- seed)	5	Preemergence. Do not graze or feed forage from treated areas.
Soybeans (seed crop)		5	Preemergence. Do not graze or feed forage from treated areas. Do not use seed for feed, food, or oil.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLOROPICRIN*

PRINCIPAL FORMULATIONS: 99% technical material

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Any Crop: (including greenhouse, nursery and outside beds)		1021 lbs. actual/A.	Preplanting soil fumigation only. Aerate for 7-14 days prior to planting.
Commodity Fumigation:			
Beans		3.0 lbs./ 1000 cu.ft.	Expose to fumigation for 24-36 hours. No limitation to number of treatments.
Cowpeas		3.0 lbs./ 1000 cu.ft.	Expose to fumigation for 24-36 hours. No limitation to number of treatments.
Peas		3.0 lbs./ 1000 cu.ft.	Expose to fumigation for 24-36 hours. No limitation to number of treatments.
Nuts		8.6 gms./ 1000 cu.ft.	Expose to fumigation for 24 hours or longer. Used in combination with other fumigants.
Stored Grain			
Barley	Exempt	6.0 lbs./	Expose to fumigation for 24 hours or
Buckwheat	Exempt	1000 bu.	longer. No limit to number of treatments.
Corn	Exempt		No aeration period needed. Avoid
Oats	Exempt		fumigation if (1) grain moisture is
Rice	Exempt		high, (2) grain temperature is below
Rye	Exempt		60°F., or (3) there is excessive dockage.
Sorghum (grain)	Exempt		
Wheat	Exempt		

*Trichloronitromethane

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2-CHLORO-1-(2,4,5-TRICHLOROPHENYL) VINYL DIMETHYL PHOSPHATE

PRINCIPAL FORMULATIONS: 75% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn (seed crop only)		lbs. actual/A. 1.5	Do not use corn or corn forage for food, feed, forage, or ensilage.
Agricultural Premises:			
Calf barns Corrals Dairy barns Hog barns Livestock sheds Other buildings (except poultry houses)		2% spray	Use 1 gallon/500 to 1000 sq. ft. of ceiling and wall surface.

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CHLORTETRACYCLINE*

PRINCIPAL FORMULATIONS: Soluble powders containing 10% and 16.5% chlortetracycline hydrochloride

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Freshly-killed uncooked poultry	7	30 ppm in the chilling bath	Use only on poultry that is to be cooked.
Fresh-caught fish (whole, headed or gutted), unpeeled shrimp, and shucked scallops	5	Store in ice (block or chip) containing 5 ppm CTC	No time limitations.
Fresh-caught fish (whole, headed or gutted)	5	25 ppm dip solution	Do not immerse more than 1 minute. Do not treat more than 400 lb. fish per 10 gals. solution.
Shucked scallops	5	10 ppm dip solution	Do not immerse more than 1 minute.

*Proprietary name: "Acronize PD"

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COPPER (Ammoniacal)

PRINCIPAL FORMULATIONS: 3.25% & 10% liquid; 10% soluble paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual copper/A.	
Apples		0.4	No time limitations.
Beans		0.5	No time limitations.
Carrots		0.4	No time limitations.
Celery		0.4	No time limitations.
Citrus		0.4	No time limitations.
Cucumbers		0.6	No time limitations.
Currants		0.3	No time limitations.
Gooseberries		0.4	No time limitations.
Grapes		0.3	No time limitations.
Melons		0.5	No time limitations.
Peaches		0.4	No time limitations.
Peanuts		0.5	No time limitations.
Pears		0.4	No time limitations.
Peas		0.3	No time limitations.
Potatoes		0.3	No time limitations.
Quinces		0.4	No time limitations.
Squash		0.5	No time limitations.
Sugar beets		0.5	No time limitations.
Tomatoes		0.5	No time limitations.

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COPPER ARSENATE

PRINCIPAL FORMULATIONS: Customarily marketed as 91% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	(as combined As ₂ O ₃)	lbs. actual/A.	
Almonds		32.0	Do not apply after petal fall.
Apricots		64.0	Do not apply after petal fall.
Beans (dried)		15.0	No time limitations.
Beans (green or snap)		15.0	Do not apply after edible parts start to form. Do not feed any treated plant parts to livestock.
Broccoli		8.0	Do not apply after edible parts start to form.
Brussel sprouts	3.5	8.0	Do not apply after edible parts start to form.
Cabbage	3.5	8.0	Do not apply after edible parts start to form.
Carrots	3.5	8.0	No time limitations.
Cauliflower	3.5	8.0	Do not apply after curd starts to form.
Celery		9.0	No time limitations.
Cucumbers		7.3	No time limitations.
Cucurbits		7.0	No time limitations.
Grapefruit		4.6	Apply 1-3 weeks after bloom. Treatment may be repeated in summer scabicide sprays.
Kohlrabi	3.5	8.0	Do not apply after edible parts start to form.
Pears		18.0	Do not apply after petal fall.

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COPPER CHLORIDE

PRINCIPAL FORMULATIONS: 5% solution

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes		2.0	No time limitations.
Tomatoes		2.5	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

COPPER HYDROXIDE

PRINCIPAL FORMULATIONS: 86% and 92% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Bananas	Exempt	1.8	No time limitations.
Beans	Exempt	1.7	No time limitations.
Celery	Exempt	2.8	No time limitations.
Cucumbers	Exempt	1.12	No time limitations.
Potatoes	Exempt	2.24	No time limitations.
Sugar beets	Exempt	2.8	No time limitations.
Walnuts	Exempt	7	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

COPPER SULFATE (Basic)

PRINCIPAL FORMULATIONS: 6,6.5,7,8,26 and 52% metallic copper equivalent dusts; 12.75,13,19,26,34,35,38,47.7,52 and 53% metallic copper equivalent wettable powders; 30% metallic copper equivalent liquid concentrate; 32% metallic copper equivalent emulsifiable concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Almonds	Exempt	21.5	Prebloom stages.
Apples	Exempt	17.0	No time limitations.
Apricots	Exempt	21.3	Red bud or prejacket stages.
		2.6	No time limitations.
Avocados	Exempt	19.0	140 days after bloom.
Beans	Exempt	4.0	No time limitations.
Beets	Exempt	3.6	No time limitations.
Blueberries	Exempt	1.4	No time limitations.
Brambles	Exempt	6.36	No time limitations.
Broccoli	Exempt	3.5	No time limitations.
Brussels sprouts	Exempt	3.5	No time limitations.
Cabbage	Exempt	3.5	No time limitations.
Carrots	Exempt	3.5	No time limitations.
Cauliflower	Exempt	3.5	No time limitations.
Celery	Exempt	5.2	No time limitations.
Cherries	Exempt	26.5	No time limitations.
Citrus:	Exempt	32.0	No time limitations.
Grapefruit			
Kumquats			
Lemons			
Limes			
Oranges			
Tangerines			
Tangeloes			

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COPPER SULFATE (Basic)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Cranberries	Exempt	1.4	No time limitations.
Cucurbits	Exempt	5.3	No time limitations.
Currants	Exempt	2.6	No time limitations.
Eggplant	Exempt	3.5	No time limitations.
Gooseberries	Exempt	2.6	No time limitations.
Grapes	Exempt	4.0	No time limitations.
Hops	Exempt	2.0	No time limitations.
Lettuce	Exempt	2.4	No time limitations.
Melons	Exempt	5.3	No time limitations.
Mint	Exempt	2.8	No time limitations.
Nectarines	Exempt	15.9	Dormant to full pink.
Olives	Exempt	6.36	No time limitations.
Onions	Exempt	3.5	No time limitations.
Papayas	Exempt	3.8	No time limitations.
Peaches	Exempt	15.9	Dormant to full pink.
		2.6	No time limitations.
Peanuts	Exempt	2.1	No time limitations.
Pears	Exempt	3.5	No time limitations.
Peas	Exempt	3.2	No time limitations.
Pecans	Exempt	10.0	No time limitations.
Peppers	Exempt	3.7	No time limitations.
Plums	Exempt	13.3	Green bud and popcorn stages.
		2.6	No time limitations.

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COPPER SULFATE (Basic)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Potatoes	Exempt	6.6	No time limitations.
Prunes	Exempt	13.3	Green bud and popcorn stages.
		2.6	No time limitations.
Radishes	Exempt	1.5	No time limitations.
Spinach	Exempt	3.2	No time limitations.
Strawberries	Exempt	4.0	No time limitations.
Sugar beets	Exempt	4.2	No time limitations.
Tomatoes	Exempt	6.6	No time limitations.
Vegetable seedlings	Exempt	4.2	Plant bed soil treatment.
Walnuts	Exempt	26.8	No time limitations.
Wheat	Exempt	2.1 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.

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COPPER SULFATE (Monohydrate)

PRINCIPAL FORMULATIONS: 10%, 20% and 25% dusts.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Almonds	Exempt	3.6	No time limitation.
Apples	Exempt	1.8	No time limitation.
Apricots	Exempt	3.6	No time limitation.
Broccoli	Exempt	2.8	No time limitation.
Cabbage	Exempt	2.8	No time limitation.
Carrots	Exempt	2.8	No time limitation.
Cauliflower	Exempt	2.8	No time limitation.
Celery	Exempt	2.8	No time limitation.
Cherries (sour)	Exempt	3.6	No time limitation.
Cucurbits (all)	Exempt	2.5	No time limitation.
Melons	Exempt	2.5	No time limitation.
Nectarines	Exempt	3.6	No time limitation.
Peaches	Exempt	3.6	No time limitation.
Pears	Exempt	3.6	No time limitation.
Peppers	Exempt	2.8	No time limitation.
Potatoes	Exempt	2.5	No time limitation.
Pumpkins	Exempt	2.5	No time limitation.
Squashes	Exempt	2.5	No time limitation.
Strawberries	Exempt	2.8	No time limitation.
Tomatoes	Exempt	2.8	No time limitation.
Walnuts	Exempt	3.6	No time limitation.

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COPPER SULFATE (Pentahydrate)

PRINCIPAL FORMULATIONS: 50% wettable powder; 99% crystals

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Bananas	Exempt	25.0	No time limitations.
Cranberries	Exempt	20.0	Apply between August 1-10 in 400 gals. water per acre. Berries may be speckled by treatment.
Rice	Exempt	15.0	Postflood. Apply uniformly over water surface.
Tomatoes	Exempt	25.0	No time limitations.
Water:			
Impounded Lakes Ponds Reservoirs		2.0	Algae control. Apply over water surface.
Farm ponds		40 ppm or 107.4 lbs./A.ft.	Apply over water surface above weeds in early summer. May repeat in late summer. Do not use treated water for any purpose for 7 days. Keep animals from treated ponds for 7 days.

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COPPER-TETRA COPPER CALCIUM OXYCHLORIDE

PRINCIPAL FORMULATIONS: 3%, 6%, 6.5%, 7%, 7.25%, 10% and 45% copper, metallic equivalent

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. metallic copper equiv./A.	
Almonds	Exempt	1.0	Dormant through bloom.
Apples	Exempt	2.5	No time limitations.
Apricots	Exempt	11.3	Dormant through bloom.
Pears	Exempt	2.5	No time limitations.
Beets	Exempt	2.5	No time limitations.
Carrots	Exempt	2.5	No time limitations.
Celery	Exempt	4.5	No time limitations.
Cherries	Exempt	9.0	No time limitations.
Cucurbits	Exempt	3.5	No time limitations.
Eggplant	Exempt	3.2	No time limitations.
Grapes	Exempt	2.1	No time limitations.
Melons	Exempt	2.5	No time limitations.
Peaches	Exempt	11.3	Dormant through bloom.
Pears	Exempt	3.0	No time limitations.
Peppers	Exempt	2.5	No time limitations.
Plums	Exempt	11.3	Dormant through bloom.
Potatoes	Exempt	5.7	No time limitations.
Prunes	Exempt	11.3	Dormant through bloom.
Strawberries	Exempt	2.5	No time limitations.

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CYANO (METHYLMERCURI) GUANIDINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Rice		oz. actual 0.018/bu.	Seed treatment, including planter box. Do not use treated seed for food, feed, or oil.
Safflower		0.049/100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Soybeans		0.099/100 lbs.	Seed treatment, including planter box. Do not use treated seed for food, feed, or oil.
Vegetable Plantbeds		0.024/35 gals. water	Apply $1\frac{1}{2}$ -2 pts. per sq. ft. as a preemergence soil drench and only when seedlings are to be transplanted to untreated soil.

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DALAPON*

PRINCIPAL FORMULATIONS: 85% wettable powder, as sodium salt
85% soluble powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		1.1	Apply to seedling crop underseeded in flax when flax is 1-6 in. high.
		2.2	Apply 4 weeks after seedling or when plants are 2-3 inches tall. Do not feed first year's growth to dairy animals or animals being finished for slaughter.
		6.0	Preplanting spring soil application. Follow by plowing 4 days later. Plant crop 4-5 weeks after plowing.
Apples	3	11.1	Apply 1 or 2 sprays when grass is 6-10 inches tall and after trees are at least 4 years old. Do not graze livestock on treated areas.
Apricots	1	11.1	Spray area within 3 ft. radius of tree trunk. Do not apply more than twice in any one season. Do not graze livestock on treated areas.
Asparagus	30	14.8	Apply as single application either before or after cutting season, or as split application with the first application before cutting and repeat 3-4 weeks later. During cutting season, apply immediately after cuttings. Later sprays should be directed under fern growth.
Bananas	5	11.1	Apply before grass heading stage; repeat at 4-6 week intervals. Do not apply more than 22.2 lbs. acid equivalent per year. Do not contaminate fruit, foliage, or young banana plants.

*2,2-dichloropropionic acid

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DALAPON

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Soybeans		lbs. actual/A. 7.4	Preplanting application when Johnson grass is 8-12 inches tall, followed by plowing 3 days later. Disc soil and plant soybeans 1 st days after plowing.
Sugar beets	5 (roots & tops)	3.0	Postemergence application as an overall spray from emergence to six-leaf stage.
		3.7	Postemergence application as a directed spray when beets are in seven-leaf stage to 14 inches tall. Use leaf lifting equipment to avoid wetting leaves. Do not apply more than 6 lbs. acid equivalent per acre per season.
		6.0	Postemergence application as a directed spray from emergence to six-leaf stage. Avoid spraying beet leaves.
Sugar cane		7.4	Preemergence or directed postemergence application. Do not spray cane plants.
Sweet clover		1.1	Apply to seedling crop underseeded in flax when flax is 1-6 in. high.
Wheat		7.4	Preplanting soil application in spring followed by plowing. Plant crop 5-6 weeks later.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT*

PRINCIPAL FORMULATIONS: 25% emulsifiable concentrate; 23.3% liquid (not emulsifiable);
50% wettable powder; 5% dust; 10% aerosols

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. Do not apply to forage to be sold commercially or shipped interstate.
Almonds		8.0	Do not use treated hulls for food or feed.
Apples	7	18.0	30 days.
Apricots	7	12.0	30 days.
		16.0	42 days. Applied to trunks, crotches, and lower limbs.
Artichokes	7	2.5	Do not apply after edible parts start to form.
Asparagus	7	3.0	Do not apply during cutting season.
Avocado	7	12.0	30 days.
Barley		10.0	Do not apply after heads start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans	7	6.0	7 days for green or snap beans. No limitation on dry beans. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Beets	7	6.0	Do not use treated tops for food or feed.
Blackberries	7	2.0	Do not apply after fruit starts to form.

*Dichloro diphenyl trichloroethane

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DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Blackeyed peas	7	6.0	7 days if pods are to be eaten. No limitation on shelled or dry peas. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Blackeyed peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Blueberries	7	2.5	Apply only before fruit starts to form or after harvest.
		2.0	21 days.
Boysenberries		2.0	Do not apply after fruit starts to form.
Broccoli	7	4.0	Do not apply after edible parts start to form.
Brussels sprouts	7	4.0	Do not apply after edible parts start to form.
Bush & Vine Fruits:			
Blackberries	7	25.0	Single soil application when no fruit is present.
Blueberries	7		
Boysenberries	7		
Cranberries	7	0.5	Wet or dry bait formulation.
Currants	7		
Dewberries	7		
Gooseberries	7		
Grapes	7		
Huckleberries	7		
Loganberries	7		
Raspberries	7		
Strawberries	7		
Youngberries	7		
Cabbage	7	6.0	14 days if outer leaves are to be stripped at harvest, otherwise, do not apply after heads start to form.
Carrots	7	6.0	No time limitations.

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USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cauliflower	7	6.0	Do not apply after edible parts start to form.
Celery	7	6.0	Do not apply after plants begin to bunch or after plants are half grown.
Cherries	7	12.0	30 days.
		16.0	Applied to trunks, crotches and lower limbs. 42 days.
Chestnuts		24.0	Do not apply after shucks begin to split.
Citrus:			
Grapefruit	7	25.0	Single soil application when no fruit is present.
Kumquats	7		
Lemons	7		
Limes	7	0.5	Wet or dry bait formulations.
Oranges	7		
Tangerines	7		
Tangeloes	7		
Clover		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. Do not apply to forage to be sold commercially or shipped interstate.
Collards	7	2.5	Do not apply after seedling stage. 21 days on greens for processing.
Corn			
Field	3.5 on	10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. No restriction on use of grain as food or feed.
Pop	kernels		
Sweet	and cob		
	(sweet		
	corn	3.0	Do not feed treated forage to dairy animals. Do not ensile treated corn. Do not feed stover from sweet corn receiving 3 applications, or feed field corn forage receiving late applications.
	only)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn Field		1.5	Granular formulation only. Do not feed treated forage to dairy animals. Do not feed treated forage to meat animals within 90 days of slaughter.
		0.75%	With 5.0% mineral oil. Individual ear treatment. No limitation.
Corn (seed)		2.0 oz./bu.	Do not use as food or feed.
Cotton	4 (cotton-seed)	3.0	Do not graze dairy animals or animals being finished for slaughter in treated fields.
		1.5	Apply with toxaphene as an undiluted (ultra-low volume) spray by aircraft. Do not graze dairy animals or animals being finished for slaughter on treated areas.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.
Cowpeas	7	10.0	Do not apply after pods start to form if pods are to be eaten. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	7	6.0	35 days.
Cucumbers			
Field	7	4.0	5 days. Excessive use may reduce plant growth.
Greenhouse	7	4.0	5 days.
		0.15 lbs./ 50,000 cu. ft.	Aerosol formulation. 5 days. Excessive use may reduce plant growth.
Currants	7	5.0	Do not apply after fruit begins to form.

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DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Deciduous Fruits and Nuts:			
Almonds		25.0	Single soil application when no fruit is present.
Apples	7		
Apricots	7		
Cashews		0.5	Wet or dry bait formulations.
Cherries	7		
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory nuts			
Nectarines	7		
Olives			
Peaches	7		
Pears	7		
Pecans			
Persimmons			
Plums	7		
Pomegranate			
Prunes	7		
Quinces	7		
Walnuts	—		
Dewberries		2.0	Do not apply after edible parts start to form.
Eggplant	7	6.0	5 days. Remove excess residues by wash- ing or brushing at time of harvest.
Endive	7	2.0	Do not apply after seedling stage.
Endive (greenhouse)	7	0.05 lbs./ 50,000 cu. ft.	Aerosol formulation. Do not apply after seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Field, Fiber, & Forage Crops:		lbs. actual/A.	
Alfalfa	4 (cotton- seed)	25.0	Single preplanting soil application.
Barley			
Birdsfoot		0.5	Wet or dry bait formulation.
Trefoil			
Buckwheat			
Clover			
Corn			
Cotton			
Flax			
Grasses			
Hops	7		
Lespedeza			
Millet			
Milo			
Oats			
Pasture grass			
Peanuts			
Popcorn			
Rice			
Rye			
Safflower			
Sorghum			
Soybeans			
Sugar beets			
Sugarcane			
Vetch			
Wheat			
Filberts		8.0	No limitations.
Flax		4.0	Do not apply after blossom stage. Do not feed treated forage to dairy animals or animals being finished for slaughter. No restriction on use of expressed oils.
Forage Legumes		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Garlic		3.0	No limitations.
Gooseberries	7	4.0	Apply only before fruit starts to form or after harvest.
Grain Crops		25.0	Preplanting soil application.
		0.5	Wet or dry bait formulation.
Grapefruits	7	40.0	30 days. Full coverage spray.
Grapes	7	5.0	40 days. (Do not use stickers after buckshot stage.)
Greenhouses		0.15 lbs./ 50,000 cu. ft.	Greenhouse aerosol formulation.
		25.0	Preplanting soil application or at time of planting.
Horseradish		2.5	No time limitations.
Huckleberry		5.0	No application after fruit starts to form.
Jerusalem Artichoke	7	4.0	No time limitations.
Kale	7	2.5	Do not apply after seedling stage. (21 days on greens to be processed.)
Kohlrabi	7	4.0	Do not apply after edible parts start to form.
Kumquat	7	40.0	30 days. Full coverage spray.
Lemons	7	40.0	30 days. Full coverage spray.
Lespedeza		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Lettuce	7	2.0	7 days if outer leaves are stripped at harvest on head lettuce, otherwise make no application to head lettuce after the heads start to form. Do not apply after the seedling stage on leaf lettuce.
Lettuce (greenhouse)	7	4.0	Do not apply after heads or edible parts start to form. Do not apply after seedling stage on leaf lettuce.
		0.15 lbs./ 50,000 cu.ft.	Aerosol formulation. Do not apply after heads or edible parts start to form. Do not apply after seedling stage on leaf lettuce.
Lima Beans	7	7.0	7 days. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Limes	7	40.0	30 days. Full coverage spray.
Loganberries	7	2.0	Do not apply after edible parts start to form.
Mango	7	12.0	30 days.
Melons	7	12.0	5 days.
		1.5	No limitations.
Milo		10.0	Do not apply after heads start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Milo (seed)		2.0 oz./bu.	Do not use as food or feed.
Mint			
Peppermint	100	3.0	14 days. Do not feed mint hay or spent mint hay to livestock.
Spearmint	(mint oil) 50 (mint hay)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Mustard greens	7	2.5	Do not apply after seedling stage. (21 days on greens grown for processing.)
Nectarines	7	12.0	30 days.
Oats		10.0	Do not apply after heads start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Oats (seed)		2.0 oz./bu.	Do not use as food or feed.
Okra	7	2.5	7 days.
		6.0	No application after pods start to form.
Olives		1.0%	Postharvest application to stubs before and after waxing.
		16.5	Postharvest application to trees (with 44 gals. kerosene or light to medium summer oil in full coverage water spray).
Onions	7	4.0	Do not apply to green or spring onions.
Oranges	7	40.0	30 days. Full coverage spray.
Papayas	7	8.0	30 days.
Parsnips	7	2.5	Do not use treated tops for food or feed.
Parsley		4.0	Do not apply after seedling stage.
Pasture grass		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Peaches	7	12.0	30 days.
		16.0	Apply to trunks, crotches and lower limbs. Do not apply within 42 days of harvest.
Peanuts	7	10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peanuts (seed)		2.0 oz./bu.	Do not use as food or feed.
Pears	7	18.0	30 days.
Peas	7	6.0	Do not apply to varieties with edible pods after pods start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Pecans		30.0	Do not apply after shucks split.
Peppers	7	6.0	5 days. Remove residues at time of harvest by washing or brushing.
Pineapples	7	25.0	Single soil application when no fruit is present.
		0.5	Wet or dry bait formulation.
		3.0	Do not feed treated pineapple skins or shells to dairy animals or animals being finished for slaughter.
Potatoes	1	6.0	Do not feed culled potatoes to dairy animals.
Plums	7	12.0	30 days.
		16.0	42 days. Applied to trunks, crotches, and lower limbs.
Prunes	7	12.0	30 days.
		16.0	42 days. Applied to trunks, crotches, and lower limbs.
Pumpkins	7	2.0	5 days.
Quince	7	18.0	30 days.
Radishes	7	2.5	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Radishes (greenhouse)	7	0.15 lbs./ 50,000 cu.ft.	Greenhouse aerosol formulation. Do not apply after seedling stage.
		4.0	Do not apply after seedling stage.
Raspberries	7	2.0	Do not apply after edible parts start to form.
Rice		10.0	Do not apply after heads start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Rice (seed)		2.0 oz./bu.	Do not use as food or feed.
Rutabagas	7	4.0	Do not use treated tops for food or feed.
Rye		10.0	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Rye (seed)		2.0 oz./bu.	Do not use as food or feed.
Safflower		2.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Small Grains (seed)		2.0 oz./bu.	Do not use as food or feed.
Sorghum		10.0	Do not apply after heads start to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Sorghum (seed)		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Soybeans	1.5 (soybeans, dry form)	lbs. actual/A. 2.0	21 days. Do not make more than two applications after pods begin to form. Do not feed treated plants or ensilage made from treated plants to poultry, dairy animals, or animals being finished for slaughter. Do not feed soybean mill trash to livestock or poultry.
	3.5 (combined toxaphene and DDT; DDT not to exceed 1.5 ppm)	1.5	Apply with Toxaphene as an undiluted (ultra low volume) spray by aircraft. Do not apply closer than 21 days before harvest. Do not make more than two applications after pods form. Do not feed plants treated with DDT-Toxaphene, or ensilage made from treated plants to poultry, dairy animals, or animals being finished for slaughter. Do not feed soybean mill trash to livestock or poultry.
	6.0 (crude soybean oil)		
Soybeans (seed)		2.0 oz./bu.	Do not use as food or feed.
Spinach	7	6.0	Do not apply after seedling stage. Do not apply to spinach grown for processing within 21 days of harvest.
Squash			
Summer	7	2.0	5 days.
Winter			
Strawberries	7	4.0	Apply only before fruit starts to form or after harvest.
Sugar beets		10.0	Do not feed treated tops to dairy animals or animals being finished for slaughter. Disregard caution if application is made at time of planting or before.
Sweet potatoes	7	2.5	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		2.2 grams/crate	Apply dust to harvested tubers before storing. Wash potatoes before use.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Swiss Chard	7	2.5	Do not apply after seedling stage. Do not apply to greens grown for processing within 21 days of harvest.
Tangelos	7	40.0	30 days. Full coverage.
Tangerines	7	40.0	30 days. Full coverage.
Tomatoes	7	4.0	5 days.
Tomatoes (greenhouse)	7	4.0	5 days.
		0.15 lbs./ 50,000 cu.ft.	5 days. Greenhouse aerosol formulation.
Tropical Fruits:			
Avocados	7	25.0	Single soil application when no fruit is present.
Bananas			
Guavas	7		
Mangoes	7	0.5	Wet or dry bait formulation.
Papayas	7		
Passion fruit			
Turnips	7	4.0	Do not use treated tops for food or feed.
Vegetables:			
Asparagus	7	25.0	Single preplanting soil application or at time of planting.
Beans	7		
Beets	7		
Blackeyed peas	7		
Broccoli	7		
Brussels sprouts	7		
Cabbage	7		
Cantaloupes			
Carrots	7		
Cauliflower	7		
Celery	7		
Collards	7		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (cont.)		lbs. actual/A.	
Corn	3.5 (sweet corn kernels & cob)	25.0	Single preplanting soil application or at time of planting.
Cowpeas			
Cucumbers	7		
Eggplants	7		
Endive	7		
Garlic			
Horseradish			
Kale	7		
Kohlrabi	7		
Leeks			
Lettuce	7		
Melons	7		
Mustard greens	7		
Okra	7		
Onions	7		
Parsnips	7		
Peas	7		
Peppers	7		
Pimentoes			
Potatoes			
Pumpkins	7		
Radishes	7		
Rutabagas	7		
Salsify			
Shallots			
Spinach	7		
Squash (summer)	7		
Squash (winter)	7		
Sweet potatoes	7		
Swiss chard	7		
Tomatoes	7		
Turnips	7		
Watermelons	7		

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Replaces page issued 7-1-64

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Vetch		10.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Walnuts		8.0	No time limitations.
Wheat		10.0	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Wheat (seed)		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals:		lbs. actual/A.	
Beef Cattle	7 in fat	10%	Dust. Applied thoroughly to animal. Do not apply to dairy animals.
		0.17% in water	Dip or spray. Formulated with other ingredients. Applications should not be repeated within three weeks.
		50.0% W.P.	Apply one heaping tablespoon on the back of each animal and rub into hair. Do not apply to dairy animals.
		5.0% in oil	Applied by back-rubbers. Do not apply to dairy animals.
		25.0%	Formulated with other ingredients. Applied as spot treatment to open wounds or screw-worm infestations. Do not apply to dairy animals during lactation.
Goats Sheep	7 in fat	10%	Dust. Applied thoroughly to animal. Do not apply to dairy goats.
		0.5% in water	Dip or spray. Do not apply to dairy goats.
		50.0% W.P.	Apply 1 heaping tablespoon on the back of each animal and rub into hair. Do not apply to dairy goats.
		25.0%	Formulated with other ingredients. Applied as a spot treatment to open wounds or screw-worm infestations. Do not apply to dairy goats during lactation.
Swine	7 in fat	10%	Dust. Apply thoroughly to animal.
		0.5% in oil or water	Dip or spray.
		5.0% in oil	Applied by rubbing devices.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Swine	7 in fat	lbs. actual/A. 25.0%	Formulated with other ingredients. Applied as a spot treatment to open wounds or screw-worm infestations.
Agricultural Premises including:			
Barns		6.0% in oil or water	Residual surface spray. Do not con- taminant food, feed, or drinking water. Exclude animals during treatment.
Milk rooms		10.0% dust	Apply thoroughly to premises. Do not contaminate food, feed, or drinking water. Exclude animals during treatment. Do not use in milk rooms.
Sheep folds		6.0% in oil or water	Use as a space spray. Do not con- taminant food, drinking water or feed troughs. Exclude animals during treatment.
Hog pens (excluding dairy barns & poultry houses)			
Mushroom Houses	7	200 mg./sq.ft.	Residual spray on interior surfaces. Do not apply when mushrooms are present.

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Replaces page issued 2-10-65

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDVP*

PRINCIPAL FORMULATIONS: Technical material; 1% emulsifiable concentrate; emulsifiable concentrate containing 4 lbs./gal.; 0.5% liquid; 3.0% tablets
20% resin strip; 1% dust

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bananas		One 20% resin strip (1" x 2.5" x 0.22" per stalk of fruit)	Attach strip to stalk inside polyethylene bag 2-3 weeks after shooting. Remove at time of harvest.
Animals:			
Beef Cattle		0.05%	Pour on back of animal at rate of 1 quart per adult animal. Used in conjunction with other acceptable chemicals.
Beef Cattle Dairy Cattle		25 mg./animal	Sweetened bait formulation. Apply by brushing or spraying. Repeat daily for 2 weeks and as needed thereafter.
		570 mg./animal	Apply daily in oil or water as a mist spray.
		0.25% in oil	Apply by rubbing devices. Use one gallon for each 20 linear feet of burlap rubbing devices. For automatic devices, recharge reservoir as needed. Animals must rub face for face fly control.
Goats Sheep Swine		285 mg./animal	Apply daily in oil or water as a mist spray.
Chickens (in laying cages)		3.0% tablets	Place two tablets (4 grams each) in special holder under center of floor of each wire cage. Replace tablets as necessary.

*O,O-Dimethyl-2,2-dichlorovinyl phosphate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDVP

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises:			
Animal shelters		1.0%	Dry sugar bait or syrup bait formulations.
Barns			Apply to floors, window sills, fences,
Dairy barns			etc. at the rate of 0.25 lbs. per 1000
Feed lots			sq. ft. Do not contaminate milk, milk
Milk rooms			handling equipment, feed, or drinking
Milk sheds			water.
Pig parlors		0.1%	Liquid bait formulation. Apply to floor
Poultry houses			and ground at the rate of 3 gals. per
Stables			1000 sq. ft. Apply in poultry houses out
Other farm			of reach of birds at the rate of 1/2 gal.
buildings			per 100 sq. ft. Apply to garbage cans and
			manure piles at the rate of 3 gals. per
			100 sq. ft. Do not contaminate water, feed
			milk, or milking equipment.
		0.64 oz. act./ 100 sq. ft. of enclosed space	Resin strand. Loop over or staple strands
			to rafters. Do not contaminate feed, water,
			foodstuffs, milk or milking utensils.
		1.0% in oil or water	Apply as a fog or mist inside building at
			the rate of 1 pint per 8,000 cu. ft. Do
			not contaminate feed, drinking water, milk
			or milking equipment. Do not apply in
			areas where animals have received direct
			applications of DDVP within 8 hours.
		0.5%	Apply as a spray to all exterior and in-
			terior surfaces at the rate of one quart
			per 1000 sq. ft. Apply to manure piles
			and garbage dumps at the rate of two
			quarts per 100 sq. ft. Do not contaminate
			water, feed, milk, or milking equipment.
		1.0% dust	2 lbs. per 1000 sq. ft. evenly to area.
			Apply directly to manure accumulations by
			hand or scoop. Use gloves. Repeat as
			needed. Do not contaminate milk, milk
			handling equipment, feed or drinking water
		0.8 oz. act./ 1000 cu. ft. of enclosed space	Resin strip. Do not contaminate feed,
			water, foodstuffs, milk or milking
			utensils.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDVP

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cattle feed lots Corrals Holding pens Stockyards		0.5% in oil or water	Apply with mist blower or other suitable equipment as an overall application at the rate of 0.2 lbs. DDVP per acre. The mist spray should be directed over the entire area. Particular attention should be given to areas where flies congregate such as fences, spillage areas around feed bunks, and walls of buildings. Animals may be present during treatment. Avoid direct application to exposed feed and water.
Poultry Houses			
Poultry pens Poultry yards		2.5 lbs. of 0.5% DDVP on vermiculite carrier per 650 sq. ft.	Scatter on litter around feed troughs, dusting holes, nesting areas, and roosting areas. Repeat application after 6 days. For continued protection, repeat application every 30 days.
Special:			
Outdoor fogging		0.2% in oil	Formulated with other ingredients. Apply by fogging machines. Thoroughly treat premises.
Mushroom Houses		0.5%	Apply to interior surfaces by brushing or spraying when no mushrooms are present.
		32 grams per 16,000 cubic feet	Apply by aerosol or hot pipe method 0.9 fluid oz. of emulsion concentration every four days. Repeat if necessary. Do not apply within 1 day of harvest.
		2 grams per 1,000 cubic feet	Apply by air blast fog generators only. Do not apply within one day of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

PRINCIPAL FORMULATIONS: 70.7%, 71%, 86%, 87.2% emulsifiable concentrate;
86% liquid; 17.3% granules

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apricots	5	34 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 4-6 weeks before planting.
Bananas	125 (75 in pulp)	17 - 86	Preplanting or at time of planting application in rows to mineral soil.
		17 - 52	An initial postplanting application.
		17	Subsequent postplanting treatment not more than once in each 9-12 month period after initial application.
Beans (snap)	75	17 - 24	Preplanting, at time of planting or postplanting application to mineral soils. For preplant application wait 7-14 days before planting. Do not feed vines to livestock.
Blackberries	25	26 - 86	Preplanting, at time of planting or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Do not apply within 48 days of harvest.
Boysenberries	25	26 - 86	Preplanting, at time of planting or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Do not apply within 48 days of harvest.
Broccoli	50	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Brussels sprouts	50	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Cabbage	50	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Carrots	75	17 - 24	Preplanting, at time of planting, or postplanting to mineral soils. For preplanting use wait 7-14 days before planting. Do not feed plant parts to livestock.
Cauliflower	50	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Celery	75	60 (plant beds)	Preplanting, or postplanting drench in plant beds. If preplanting application is made, wait 7-14 days before seeding.
		17 - 24 (field)	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Citrus Fruits:			
Grapefruit	20	72 - 109	Do not apply more than once every 3 years.
Lemons	20		
Limes	20		
Oranges	20		
Tangerines	20		
Cotton	25 (in seed)	17 - 26	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cucumbers	25	17 - 26	Preplanting, or at time of planting to mineral soils. For preplanting use wait 7-14 days before planting. No postplanting application.
Dewberries	25	26 - 86	Preplanting, at time of planting, or postplanting to mineral soils. For preplanting use wait 7-14 days before planting. Do not apply within 48 days of harvest.
Eggplants	50	17 - 26	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting.
Endive (Escarole)	130	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting.
Figs	75	61	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 4-6 weeks before planting. Do not apply within one year of harvest.
Grapes	25	34 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 4-6 weeks before planting.
Lettuce	130	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Loganberries	25	26 - 86	Preplanting, at time of planting or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Do not apply within 48 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Melons	50 (inorganic bromides)	lbs. actual/A. 9 per 8,712 1.ft. of row	Row rate only. Mineral soils. Preplant- ing or at time of planting treatment. For preplanting use wait 7-14 days before planting.
		26 per acre	Over all rate only. Mineral soils. Pre- planting or at time of planting treatment. For preplanting use wait 7-14 days before planting.
Nectarines	5	34 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 4-6 weeks before planting.
Okra	75	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Parsnips	75	17 - 24	Preplanting, at time of planting, or postplanting to mineral soils. For preplanting use wait 7-14 days before planting. Do not feed plant parts to livestock.
Peaches	5	34 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 4-6 weeks before planting.
Peanuts	50	17 - 26	Preplanting or at planting treatment. Do not feed, sell or introduce into commerce hay or hulls taken from treated soil. Forage crops grown on treated soil should not be used as feed for dairy animals or animals being finished for slaughter until 2 years after row treat- ments or 3 years after overall treat- ments.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Peppers	50	lbs. actual/A. 13 - 26 (direct seeded) 5.7 - 8.6 (direct seeded)	Preplanting overall. Wait 7-14 days before planting. Preplanting, at time of planting, or postplanting row application. For preplanting use wait 7-14 days before planting.
Pineapples	50	13 (transplants) 34 - 138	Preplanting overall treatment. Allow 2 weeks between treatment and planting. Preplanting or at time of planting application to mineral soils. Inject into soil at 5-8 inch depth and at least 6 inches to one side of plant line. Postplant: Injected as above or applied in 0.1 acre inch of water. Do not apply within 270 days of harvest and do not exceed 138 pounds in a single year in any combination of treatments.
Radishes	75	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Raspberries	25	26 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Do not apply within 48 days of harvest.
Squash (summer)	25	17 - 26	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 7-14 days before planting.
Strawberries	10	8 - 26	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Allow at least 55 days between treatment and harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,2-DIBROMO-3-CHLOROPROPANE + OTHER HALOGENATED C₃ COMPOUNDS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes	50	lbs. actual/A. 13 - 26 (direct seeded)	Preplanting overall. Wait 7-14 days before planting.
		5.7 - 8.6 (direct seeded)	Preplanting, at time of planting, or postplanting application in rows. For preplanting use wait 7-14 days before planting.
		13 (transplants)	Preplanting overall treatment. Allow at least 2 weeks between treatment and planting.
Turnips	75	17 - 24	Preplanting, at time of planting, or postplanting application to mineral soils. For preplanting use wait 7-14 days before planting. Do not feed plant parts to livestock.
Walnuts	10	34 - 86	Preplanting, at time of planting, or postplanting application to mineral soils. If preplanting application is made, wait 4-8 weeks before planting. Allow at least 100 days between treatment and harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICAPTHON*

PRINCIPAL FORMULATIONS: Wettable powder; 1% bait

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises:			
Barns		1.0% in water	Apply as a residual spray to surfaces where flies alight or congregate. Do not apply when animals are present. Do not contaminate milk, milking equipment, feed, or drinking water.
Dairy Barns			
Poultry Houses		1.0%	Dry bait formulation in combination with other ingredients. Apply 0.5 lbs./1000 sq. ft.
Other Farm Buildings			For liquid bait, add 1 lb./gal. of water. Do not apply inside milk rooms or inside dairy barns during milking time.
Poultry Droppings		1.0% in water	Apply as a spray to droppings under poultry cages. Do not use treated manure as fertilizer for food crops.

*O-(2-chloro-4-nitrophenyl) O,O-dimethyl phosphorothioate

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLONE*

PRINCIPAL FORMULATIONS: 1.0%, 1.5%, 2.0%, 3.0%, 4.0% dusts; 50.0% wettable powder; 55.0% paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds		3.0	No application after petal fall.
Apples	3	4.0	1 day.
Apricots		2.0	No application after petal fall.
Beans	3	1.12	7 days.
Cabbage		0.4 (combined with 30% sulfur)	Four weeks after planting.
Celery	3	0.75	No time limitations.
Cherries	3	5.0	3 days.
Corn (field, pop and sweet)		0.75 oz./100 lbs.	Seed treatment. Do not use treated seed for food or feed.
Cotton		0.5	Seed furrow treatment only.
		0.15 lbs./ seed for 1 acre	Planter box seed treatment.
Mint		1.0	4 to 6 applications at 10-14 day intervals.
Nectarines		0.3 (combined with sulfur)	Do not apply after blossom period.
Peaches	3	2.5	7 days.
Peanuts		2.0 oz./bu.	Seed treatment (dry). Do not use treated seed for food, feed, or oil.
Pears		2.5	First cover.
Peas		1 oz./100 lbs.	Seed treatment (dry or slurry). Do not use treated seed for food or feed.

*2,3-dichloro-1,4-naphthoquinone

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,3-DICHLOROALLYL DIISOPROPYLTHIOLCARBAMATE*

PRINCIPAL FORMULATIONS: 45.7% emulsifiable concentrate containing 4 pounds active ingredient per gallon; 10% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa		lbs. actual/A. 2.0	Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop.
Barley		1.25	Preplant soil incorporation. Apply within 2-3 weeks of soil freeze-up. Plant in spring. Do not graze unharvested crop. or Preemergence soil incorporation. Do not graze unharvested crop.
Clover Alsike Red Sweet		2.0	Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop.
Corn		1.5	Use restricted to North Dakota, Minnesota, and Montana. Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop. or Preemergence soil incorporation. Do not graze unharvested crop.
Flax		2.0	Preplant soil incorporation. Apply within 2-3 weeks of soil freeze-up. Do not graze unharvested crop. or Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop. or Preemergence soil incorporation. Do not graze unharvested crop.

*Proprietary name: "Avadex"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,3-DICHLOROALLYL DIISOPROPYLTHIOLCARBAMATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Lentils		lbs. actual/A. 1.5	Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop. or Preemergence soil incorporation. Do not graze unharvested crop.
Peas		1.25	Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop. or Preemergence soil incorporation. Do not graze unharvested crop.
Potatoes		2.0	Use restricted to North Dakota, Minnesota, Montana. Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop.
Safflower		1.5	Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop.
Sugar beets		2.0	Preplant soil incorporation. Apply within 2-3 weeks of soil freeze-up. Do not graze unharvested crop. or Preplant soil incorporation. Plant within 3 weeks. Do not graze unharvested crop.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,6-DICHLOROBENZONITRILE*

PRINCIPAL FORMULATIONS: 4% granular; 50% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa (seed crop)		2.0	Use restricted to Pacific Northwest States. Soil incorporation after hay crop. Do not graze treated areas or feed seed or forage. or Soil incorporation to established crop in spring before dodder and weed seeds germinate. For dodder control, repeat without soil incorporation 4-6 weeks later. Do not graze treated areas or feed seed or forage.
Apples		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Avocados		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Cherries		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Clover Ladino (seed crop)		2.0	Use restricted to Pacific coast states. Overall on established crop during November or December. Do not graze treated areas or feed seed or forage.
Cranberries		4.0	Apply in early spring as single or split application 3-6 weeks apart. Do not apply to areas treated the previous fall. Do not apply after blooming of crop begins.
		6.0	Apply in late fall after harvest. Do not apply to areas treated the previous spring.

*Coined common name: Dichlobenil

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2,6-DICHLOROBENZONITRILE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Mangoes		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Peaches		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Pears		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Plums (Prunes)		6.0	Apply in early spring or after clean cultivation as directed spray to orchard floor. Do not graze livestock in treated areas. Do not spray foliage or fruit of bearing trees.
Water: Ponds Reservoirs Lakes		15.0	Broadcast to exposed bottoms or to water surface in early spring. Do not use treated water for irrigation or for human or livestock consumption. Do not use fish for food or feed within 90 days after treatment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,5-DICHLORO-3-NITRO BENZOIC ACID, SODIUM SALT*

PRINCIPAL FORMULATIONS: 21.1% liquid containing 2 lbs. of active ingredient per gallon

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Safflower (seed crop)		lbs. actual/A. 2.0	Preemergence application at time of planting or soon after. or Preplanting soil application to prepared seed bed and incorporated into top 1-2 inches of soil immediately prior to planting. Do not graze treated areas or feed treated forage to livestock. Do not use seed from treated crops for food, feed, or oil purposes.

*Dinoben

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Follows page 254

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,6-DICHLORO-4-NITROANILINE*

PRINCIPAL FORMULATIONS: 50% & 75% wettable powder; 4,6,8,10,12 & 15% dusts;
0.2% impregnated fruit wraps

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apricots	20	5.0 (spray) 3.0 (dust)	Do not apply within 1 day of harvest.
Beans	20		
Snap green pole		3.0	Do not apply within 2 days of harvest. Do not feed treated forage to livestock.
bush		2.25	Do not apply within 2 days of harvest. Do not feed treated forage to livestock.
Blackberries	15	2.5 (spray) 3.0 (dust)	Use restricted to Pacific Northwest. Do not apply within 7 days of harvest. Do not make more than 4 applications per season.
Boysenberries	15	2.5 (spray) 3.0 (dust)	Use restricted to Pacific Northwest. Do not apply within 7 days of harvest. Do not make more than 4 applications per season.
Carrots	10 (from posthar- vest app- lication)	0.75 lbs. act. per 100 gals. of water (1350 ppm)	Postharvest dip treatment only.
Celery	15	1.5 (spray)	Do not apply within 7 days of harvest.
Cherries	20	10.0 (spray) 3.0 (dust)	Preharvest application and postharvest application while sorting cherries.
Sweet			
Cotton	0.1	2.0	Do not apply later than 14 days after first bolls open. Do not graze treated fields or feed gin waste to livestock.
Cucumbers (Greenhouse)	5	1.0 lb.act./100 gallons water	Apply to diseased areas of plants. Additional applications may be required after 14 days. No time limitation.
Garlic	5	30	Soil application before seeding and around sets. Do not plant spinach as follow up crop in treated soil.

*Proprietary name: Botran

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,6-DICHLORO-4-NITROANILINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Grapes	10	1.8 (dust)	Do not apply within 1 day of harvest.
Lettuce Leaf (greenhouse)	10	2.0	Do not apply within 14 days of harvest. Do not apply to wilted plants or seedlings.
Head		2.0	Do not apply within 14 days of harvest.
Nectarines	20	5.0 (spray) 3.6 (dust)	Do not apply within 1 day of harvest.
Onions	5	30 (spray) 24 (dust)	Soil application before seeding and around sets. Do not plant spinach as follow-up crop in treated soil.
Peaches	20	5.0 (spray) 3.6 (dust)	Do not apply within 1 day of harvest.
		0.75 lbs.act./ 100 gals. water	Postharvest treatment. Do not use antifoam agent.
		0.2% wrap (2000 ppm on paper)	Fruit wrap tissues.
Plums (fresh prunes)	1	2.5 (spray)	Do not apply later than full bloom.
Potatoes	0.25	1.5 (spray)	Use restricted to Michigan. Do not apply within 14 days of harvest.
Raspberries (red)	15	2.5 (spray) 3.0 (dust)	Use restricted to Pacific Northwest. Do not apply within 7 days of harvest. Do not make more than 4 applications per season.
Rhubarb (greenhouse)	10	1.0 (spray)	Do not apply within 3 days of harvest.
Strawberries	15	1.5	No time limitations.
Sweet potatoes	10	0.75 lbs. actual/100 gals. water	Postharvest spray after sweet potatoes have been washed and while they are on conveyor or dip for 10-15 seconds.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,6-DICHLORO-4-NITROANILINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes (greenhouse)	5	lbs. actual/A. 0.75 lbs. actual/100 gals. water or 1.8 (dust)	Spray application to stems of plants. Do not drench seedlings or newly set transplants. No time limitations.
Tomatoes (field)	5	1.9	California only. No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-DICHLOROPHENOXYACETIC ACID*

PRINCIPAL FORMULATIONS: 3.75% to 98.0% sodium & amine wettable powder; 10% to 74.2% amine solution; 1.2% to 18.0% "volatile" dusts; 8.8% to 99.0% "volatile" emulsifiable concentrates; 20.55% to 95.0% "low volatile" emulsifiable concentrates; 32.0% to 39.0% 2,4-D acid; 14.5% to 43.5% granular formulations; 95% lithium salt soluble powder.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	5	2.0	2,4-D acid and oil soluble amine formulations. Apply when weeds are young and actively growing. Do not allow spray to contact leaves, fruit or stems.
Asparagus	5 (from sodium salt of 2,4-D only)	2.0	Preemergence application immediately after discing on established bed, or after postharvest discing.
		1.0	Postemergence application. Young seedlings.
		2.5	During harvest. Not over 2 applications spaced 1 month apart. Postharvest application. Use drop nozzles to keep spray off plant.
Barley		1.5	Full tiller to boot stage and after milk stage to harvest. Do not apply from boot to milk stage or in seedling stage.
Blueberries		3.0	Apply in fall after blueberry leaves have fallen and before a burn. Repeat fall application in 2-3 years.
Corn (field)		2.0	Preemergence application. Do not use on light sandy soil. Double dosage on muck soils.
		1.5	Postemergence application. Emergence to tasseling. Do not apply from tasseling to dough stage. Use drop nozzles when corn is over 10 inches high.
		1.3	After early dough stage.
Corn (pop)		0.5	Postemergence application when 3-10 inches tall.

*2,4-D

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-DICHLOROPHENOXYACETIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn: (cont.)			
Sweet		1.5	Preemergence application. Do not apply on light sandy soil.
		0.75	Post-emergence application. Emergence to tasseling.
		0.42	After early dough stage.
Cranberries		1.0	Apply broadcast over bogs up to white bud stage. Do not apply after first flowers open.
		0.25% (in water)	Apply by swabbing weeds above crop any time up to end of blossom period. Do not drip solution on cranberry plants.
		4.0	Broadcast over bog after drawing down winter flood or on ice before spring thaw while cranberries are dormant.
Cropland		40.0	Apply in fall or spring. Remove treated area from crop production for 1 year until chemical has been inactivated in the soil.
Flax		1.0	Post-emergence application before bud stage.
		0.5	When seed is mature.
Grains:			
Barley		1.25	Tiller to boot stage.
Corn			
Oats		0.75	After dough stage.
Rice			
Rye		0.25	Tiller to boot stage. Apply to grain underseeded to legumes (alsike, ladino, red clovers and lespedeza).
Sorghum			
Wheat			
Grapes:			
Vineyard		4.4	Dormant season application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-DICHLOROPHENOXYACETIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Pasture: (Cont.)		lbs. actual/A.	
Clover Grass		0.5	Bent and susceptible grass pastures. Do not apply when grass is in boot to milk stage. Do not apply to newly seeded areas or after heading begins. Do not graze dairy animals on treated areas within 7 days after application.
		1.0	Clover and alfalfa pastures. Do not apply when grass is in boot to milk stage. Do not apply to newly seeded areas or after heading begins. Do not graze dairy animals on treated areas within 7 days after application.
Pears	5	2.0	2,4-D acid and oil soluble amine formulations. Apply when weeds are young and actively growing. Do not allow spray to contact leaves, fruit or stems.
Potatoes		2.0	Freemergence application.
		1.12 oz./A.	To intensify red color and improve skin appearance. Apply when potatoes are in prebud stage (7-10" high); second application 10-14 days later.
Rangeland:			
Rangegrass Rangeland Clearance Ranges		3.0	Broadleaf weeds. Apply in spring when weeds are growing rapidly.
		6.0	Woody plants. Apply when woody plants are actively growing in spring or fall.
Raspberries		1.0	Apply to first year and nonfruiting stands. Do not apply to growing tip, flowers, or fruiting canes.
Resistant Crops (such as grasses)		4.0	Spot treatment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-DICHLOROPHENOXYACETIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rice		1.25	Tiller to boot. If granules are used, apply 3 lbs. when rice is 2 weeks old.
		1.7	After flooding (3-21 days). Do not apply after seed stalks have emerged.
Rye		1.5	Tiller to boot stage and after milk stage to ripening grain. Do not apply from boot to milk stage or in seedling stage.
Sorghum			
Milo		2.0	Preemergence. Do not apply on light sandy soil.
Milo maize		1.0	Postemergence. Emergence to flowering. Use drop nozzles when crop is over 10 inches high. Do not apply during flowering or early dough stages.
		0.75	Use restricted to lithium salt. Post-emergence. Over-all spray from 4 inches tall until the seed head is 6 inches below tip of the boot. Do not apply during flowering to early dough stages.
Soybeans		0.5	Apply by dragging waxed bar over coffee bean weeds 2-3 inches above crop. Do not allow wax bar to contact soybean plants. Do not mount bar in front of tractor.
Strawberries		1.5	Apply after transplanting on first year beds. Apply after harvest before runners form on established beds. Do not apply during bud, flower, or fruit stage.
		2.4	Dormant application.
Sugarcane		2.0	Preemergence application before canes appear. or Postemergence application in spring after cane emerges and through lay-by.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4-DICHLOROPHENOXYACETIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Wheat		lbs. actual/A. 1.5	Full tiller to boot and after milk stage to ripening grain. Do not apply from boot to milk stage or in seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLOROPROPENE-DICHLOROPROPANE*

PRINCIPAL FORMULATIONS: 100% liquid mixture containing 10 lbs. per gallon

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Avocado		lbs. actual/A. 600-2000	Preplanting soil application. Do not treat extremely heavy soils. Dosage rate increases as soil becomes heavier and as deeper penetration of the chemical is required. Do not apply near living plants.
Citrus Fruits:			
Grapefruits		600-2000	Preplanting soil application. Do not treat extremely heavy soils. Dosage rate increases as soil becomes heavier and as deeper penetration of the chemical is required. Do not apply near living plants.
Kumquats			
Lemons			
Limes			
Oranges			
Tangeloes			
Tangerines			
Field and Forage Crops:			
Alfalfa		180-600	Preplanting soil application. Wait 1 week before planting for each 10 gal./A. applied--longer in case of heavy rains or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.
Barley			
Birdsfoot			
Trefoil			
Buckwheat			
Clover			
Corn			
Cotton			
Flax			
Grasses			
Hops			
Lespedeza			
Millet			
Milo			
Oats			
Pasture Grass			
Peanuts			
Popcorn			
Rice			
Rye			

*Proprietary Names: "D-D Mixture"; "Vidden-D"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLOROPROPENE-DICHLOROPROPANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Field and Forage Crops (Cont.):		lbs. actual/A.	
Safflower			
Sorghum			
Soybeans			
Sugar beets			
Sugarcane			
Vetch			
Wheat			
Orchards (Deciduous Fruits and Nuts):			
Almonds		250-1700	Preplanting soil treatment. Do not treat extremely heavy soils. Dosage requirements increase with heavy soils and depth of soil penetration needed. Wait 3-6 months after treatments before planting.
Apples			
Apricots			
Cashews			
Cherries			
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory nuts			
Nectarines			
Olives			
Peaches			
Pears			
Pecans			
Persimmons			
Plums			
Pomegranate			
Prunes			
Quinces			
Walnuts			
Pineapple		400-600	Preplanting soil application or at time of planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLOROPROPENE-DICHLOROPROPANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Small Fruits:		lbs. actual/A.	
Blackberries Blueberries Boysenberries Cranberries Currants Dewberries Gooseberries Grapes Huckleberries Loganberries Raspberries Strawberries Youngberries		180-600	Preplanting soil application. Wait 1 week before planting for each 10 gal./A. applied--longer in case of heavy rains, or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.
Strawberries		527	Preplanting soil application. Wait 1 week before planting for each 10 gal./A. applied--longer in case of heavy rains or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.
Sugar Beets		527	Preplanting soil application. Wait 1 week before planting for each 10 gals./A. applied--longer in case of heavy rains or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.
Vegetable Crops:			
Asparagus Beans Beets Blackeyed Peas Broccoli Brussels Sprouts Cabbage Cantaloupes Carrots Cauliflower Celery Collards		180-600	Preplanting soil application. Wait 1 week before planting for each 10 gal./A. applied--longer in case of heavy rains or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLOROPROPENE-DICHLOROPROPANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetable Crops: (cont.)		lbs. actual/A.	
Corn		180-600	Preplanting soil application. Wait 1 week before planting for each 10 gal./A. applied--longer in case of heavy rains or temperatures below 60 degrees F. Do not treat extremely heavy soils. Do not apply near living plants.
Cowpeas			
Cucumbers			
Eggplants			
Endive			
Garlic			
Horseradish			
Kale			
Kohlrabi			
Leeks			
Lettuce			
Melons			
Mustard Greens			
Okra			
Onions			
Parsnips			
Peas			
Peppers			
Pimientos			
Potatoes			
Pumpkins			
Radishes			
Rutabagas			
Salsify			
Shallots			
Spinach			
Squash (Summer)			
Squash (Winter)			
Sweet potatoes			
Swiss chard			
Tomatoes			
Turnips			
Watermelons			
Vineyards:		200-1700	Preplanting soil treatment. Do not treat extremely heavy soils. Dosage requirement increases with heavy soils and depth of soil penetration needed. Wait 3-6 months after treatments before planting.
Grapes			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICHLOROPROPENES*

PRINCIPAL FORMULATIONS: Mixture of technical dichloropropenes

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Bush and Vine Fruits:			
Blackberries		320-480	Preplanting soil fumigation. Allow 2 to 3 weeks to lapse between treating and planting or until odor has left the soil. Do not treat extremely heavy soils.
Blueberries			
Boysenberries			
Cranberries			
Currants			
Dewberries			
Gooseberries			
Grapes			
Huckleberries			
Loganberries			
Raspberries			
Strawberries			
Youngberries			
Citrus:			
Grapefruits		200-1920	Preplanting soil fumigation. Allow from 2 to 3 weeks in the lower dosage range and 2 to 3 months in the higher dosage range to lapse between treating and planting, or until odor has left the soil. Do not treat extremely heavy soils.
Kumquats			
Lemons			
Limes			
Oranges			
Tangerines			
Tangeloes			
Deciduous Fruits and Nuts:			
Almonds		200-1375	Preplanting soil fumigation. Allow 2 to 3 weeks in lower dosage range and 2 to 3 months in higher dosage range to lapse between treating and planting or until odor has left soil. Dosage increases according to soil type and depth of control needed.
Apples			
Apricots			
Cashews			
Cherries			
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			

*Proprietary Name: "Telone"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DICRYL*

PRINCIPAL FORMULATIONS: 19.3% emulsifiable concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		lbs. actual/A. 3.0	Apply 7 days after cotton emerges and weeds are less than 11 days old (1/2 - 1 1/2 inches high). If split application is used, apply 2 lbs. as above and repeat with 1 lb. 4-10 days later. Do not apply after bolls form. Do not feed treated foliage to livestock.

*N-(3,4-dichlorophenyl) methacrylamide

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN*

PRINCIPAL FORMULATIONS: Emulsifiable concentrate containing 1.5 lbs. per gallon; 50% wettable powder; 1.5% dust; 5%, 10%, and 15% granular products; 50% and 75% wettable powders for seed treatments; fertilizer containing up to 24 lbs. of dieldrin per ton

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	0.25	3.0	45 days. Full coverage spray or soil treatment.
		2.0	35 days. Full coverage spray or soil treatment.
Apricots	0.1	4.0	45 days. Full coverage spray. Do not graze dairy animals or animals being finished for slaughter in treated orchards.
		0.015 lbs./tree	Band treatment. Do not contaminate fruit.
Bananas	0.25 (on peel)	0.5	4 days.
	0 (in pulp)	3.0	Soil application to soil surface around trees. If liquids are used, apply as a coarse low-pressure spray. Do not contaminate foliage or fruit.
Barley (seed)		2.0 oz./bu.	Do not use for food or feed.
Beans (seed)		2.0 oz./bu.	Do not use for food or feed.
Blackberries		1.0	Do not apply after first bloom.
Blackeyed peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Blueberries		1.0	Do not apply after first bloom.
Boysenberries		1.0	Do not apply after first bloom.
Broccoli	0.25	0.5	30 days.
Brussels sprouts	0.25	0.5	30 days.

*1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,exo-4,8-dimethanonaphthalene

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DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bush & Vine Fruits:		lbs. actual/A.	
Blackberries	0.1	5.0	Broadcast soil application, preplanting, or postharvest in fall or early spring before blooming. Dosage may be doubled for peat or muck soils.
Blueberries			
Boysenberries			
Cranberries			
Currants			
Dewberries	0.1	1.0%	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Gooseberries			
Grapes			
Huckleberries			
Loganberries			
Raspberries	0.1		
Strawberries			
Youngberries			
Cabbage	0.25	0.5	21 days.
Cantaloupes	0	0.6	30 days.
Carrots	0.1	0.5	21 days.
Cauliflower	0.25	0.5	21 days.
Cherries	0.25	4.0	30 days. Full coverage spray.
		0.015 lbs./tree	Band treatment. Do not contaminate fruit.
Citrus Fruits:			
Grapefruit	0.25	0.5	30 days.
Kumquats			
Lemons	0.25	2.25	Apply to soil and trunk. Do not contaminate fruit.
Limes	0.25		
Oranges	0.25		
Tangerines	0.25	5.0	Soil application around trees for control of Mediterranean fruit fly.
Tangeloes			
		1.0%	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn (seed)		2.0 oz./bu.	Do not use for food or feed.
Cotton		1.0	Do not graze treated fields by dairy animals or animals being finished for slaughter.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	0.1	1.25	21 days.
		5.0	Broadcast soil application. Preplanting or postharvest in fall or in spring before blooming. Dosage may be doubled for peat or muck soils.
Cucumbers	0.25	0.5	7 days.
Currants		1.0	Do not apply after first bloom.
Deciduous Fruits & Nuts:			
Almonds		5.0	45 days. Apply to lower portion of trunk, but not to fruit or foliage. May be applied to trunk and lower branches when no fruit is present.
Apples	0.25		
Apricots	0.1		
Cashews			
Cherries	0.25		
Chestnuts		1.0%	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory nuts			
Nectarines	0.1		
Olives			
Peaches	0.1		
Pears	0.25		
Pecans			
Persimmons			
Plums	0.1		
Pomegranate			
Prunes	0.1		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Deciduous Fruits & Nuts: (cont.)			
Quinces Walnuts		5.0	45 days. Apply to lower portion of trunk, but not to fruit or foliage. May be applied to trunk and lower branches when no fruit is present.
		1.0%	Wet or dry bait formulations. Apply to soil around base of plant. Do not con- taminant edible parts. Do not apply within 30 days of harvest.
Dewberries		1.0	Do not apply after first bloom.
Eggplants	0.1	0.5	7 days.
Field and Forage Crops:			
Buckwheat Cotton Flax Hops Safflower Sugarcane		3.0	Preplanting soil application or at time of planting. Double dosages accepted for peat or muck soils.
		1.0	Wet or dry bait formulations. Apply to soil around base of plant. Do not con- taminant edible parts. Do not apply within 30 days of harvest.
Gooseberries		1.0	Do not apply after first bloom.
Grapes	0.1	0.25	14 days.
Horseradish	0.1	0.5	21 days.
Hops		5.0	Soil application. Apply during early spring before growth starts.
Lettuce	0.25	0.5	21 days.
Mangoes	0.1	0.75	45 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Melons	0	0.5	Do not apply after blossoming.
Mint		5.0	Preplanting soil treatment or during dormant season on old plantings.
Muskmelons	0	0.5	Do not apply after blossoming.
Nectarines	0.1	4.0	45 days. Full coverage spray. Do not graze dairy animals or animals being finished for slaughter in treated orchards.
Oats (seed)		2.0 oz./bu.	Do not use for food or feed.
Onions	0.1	0.5	14 days. Do not apply to green or spring onions.
Parsnips	0.1	0.25	21 days.
Peaches	0.1	4.0	45 days. Full coverage spray. Do not graze dairy animals or animals being finished for slaughter in treated orchards.
		0.015 lb./tree	Band treatment. Do not contaminate fruit.
Pears	0.25	3.0	35 days. Do not allow dairy animals or animals being finished for slaughter to graze on treated forage.
Peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Peppers	0.1	0.5	7 days.
Pimentos	0.1	0.5	7 days.
Pineapple	0.25	1.0	60 days. Do not feed husks to meat or dairy animals.
Potatoes	0.1	0.5	3 days.
Plums	0.1	4.0	30 days. Full coverage spray.
		0.015 lb./tree	Band treatment. Do not contaminate fruit.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Prunes	0.1	4.0	30 days. Full coverage spray.
		0.015 lb./tree	Band treatment. Do not contaminate fruit.
Pumpkins	0	0.5	Do not apply after blossoming.
Quinces	0.25	3.0	35 days. Full coverage spray.
Radishes	0.1	0.5	21 days.
Raspberries		1.0	No application after first bloom.
Rice (seed)		2.0 oz./bu.	Do not use as food or feed.
Rye (seed)		2.0 oz./bu.	Do not use as food or feed.
Sorghum (seed)		2.0 oz./bu.	Do not use as food or feed.
Soybeans (seed)		2.0 oz./bu.	Do not use as food or feed.
Squash (summer)	0.25	0.5	7 days.
Strawberries	0.1	1.0	Foliage treatment only. Do not apply after fruit begins to form.
Sweet potatoes	0.1	1.5	21 days.
Tomatoes	0.1	0.75	15 days.
		0.5	7 days.
Tropical Fruits:			
Avocados	0	4.0	Preplanting soil application or when no fruit is present.
Bananas	0.25 (pulp)		
Guavas			
Mangoes	0.1		
Papayas			
Passion fruit			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIELDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Vegetables:			
Asparagus	0.1	3.0	Preplanting soil application, at time of planting, or before edible parts begin to form. Double dosages accepted in peat or muck soils.
Beans	0		
Broccoli	0.25		
Brussels sprouts	0.25		
Cabbage	0.25		
Cantaloupes	0	1.0	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Cauliflower	0.25		
Cucumbers	0.25		
Eggplants	0.1		
Garlic			
Horseradish	0.1		
Leeks			
Lettuce	0.25		
Melons			
Okra			
Onions	0.1		
Parsnips	0.1		
Peppers	0.1		
Pimentoses	0.1		
Pumpkins	0		
Radishes	0.1		
	(roots & tops)		
Shallots			
Squash (summer)	0.25		
Squash (winter)	0		
Sweet potatoes	0.1		
Tomatoes	0.1		
Watermelons	0		
Watermelons	0	0.5	Do not apply after blossoming.
Wheat (seed)		2.0 oz./bu.	Do not use for food or feed.
Winter squash	0	0.5	Do not apply after blossoming.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-3-CHLORO-4-METHYL-2-OXO-2H-1-BENZOPYRAN-7-YL-PHOSPHOROTHIOATE*

PRINCIPAL FORMULATIONS: 0.5% and 5% dust; 25% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cattle	1.0 (meat, fat, meat by products)	10.0 gram/ animal in water or mineral oil	Apply to the back of animals by sprinkling or brushing. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
	0 (in milk)	0.125% in water	Dip. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
		0.25% in water	Dip. No limitations for slaughter stock. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
		0.375-0.5% in water	Spray. No limitations for slaughter stock. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening. Higher concentration to be used in Northern areas or for late fall applications when long hair coats make thorough wetting of the skin difficult.
		1.0% (in oil)	Apply by backrubbers.
		5.0% (dust)	Apply locally in ears and adjacent head areas, in and around wounds, cuts, scratches, etc. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
Poultry	1.0 (meat, fat, meat by products)	0.25% in water	Apply 1 gallon per 100 birds.
		0.5% (dust)	Apply thoroughly to birds. or Apply 3 lbs. dust per 50 birds in self-treatment dust box.
	0 (in eggs)		

*Proprietary name: "Co-Ral"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-3-CHLORO-4-METHYL-2-OXO-2H-1-BENZOPYRAN-7-YL PHOSPHOROTHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Poultry (cont.)	1.0 (meat, fat, meat by- products)	5.0% (dust)	Apply 4 oz. dust with 2 1/4 lbs. sand, dust or talc per 50 birds in self- treatment dust box. Repeat as necessary.
	0 (in eggs)		
Sheep & Goats	1.0 (meat, fat, meat by products)	0.25% in water	Spray. Do not apply within 15 days of slaughter. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
	0 (in milk)	5.0% (dust)	Apply locally in ears and adjacent head areas, in and around wounds, cuts, scratches, etc. Do not apply to lactating dairy animals or to dry dairy animals within 14 days of freshening.
		0.5% (dust)	Apply 1-2 ounces per animal and rub into wool over entire body. Do not apply within 15 days of slaughter.
Swine	1.0 (meat, fat, meat by- products)	0.25% in water	Spray. No time limitations.
		5.0% (dust)	Apply locally in ears and adjacent head areas, in and around wounds, cuts, scratcher, etc.
Agricultural Premises:			
Poultry Houses	1.0 (meat, fat, meat by- products)	0.25% in water	Spray litter and house at the rate of 1 gallon/1000 sq. ft.
		0.5% (dust)	Apply to litter at the rate of 5 lbs./ 100 sq. ft. Apply to all interior sur- faces at the rate of 1.4 lbs./100 sq. ft.
	0 (eggs)	5.0% (dust)	Apply to litter at the rate of 6.6 oz./ 100 sq. ft. Apply to all interior sur- faces at the rate of 2 oz./100 sq. ft.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIETHYL DITHIO BIS (THIONOFORMATE)

PRINCIPAL FORMULATIONS: 58.0% emulsifiable concentrate

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans		10.0	Preemergence application 24-48 hours before crop emerges. Do not feed treated vines to livestock.
Snap			
Onions		10.0	Preemergence application 24-48 hours before crop emerges.
		10.0	Post-emergence application after flag stage. Do not apply to green or spring onions.
		10.0	Preharvest desiccant application. Do not apply within 48 hours of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE*

PRINCIPAL FORMULATIONS: 2%, 2 1/2%, 5%, and 10% granular; 50% seed treatment (with added sticker)
65.7% liquid containing 6 lbs./gal.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	12 (hay)	1.0	Granular formulation. Mix with seed at time of planting or apply by drilling, sidedressing, or broadcasting as needed. Allow a minimum of 28 days between applications.
	5 (fresh forage)		
Barley	0.75 (grain)	1.0	60 days. Soil application at time of planting or after emergence. Do not apply more than twice per season. Do not graze or cut for forage within 30 days after treatment.
	5.0 (forage or straw)		
Beans			
Green Lima Snap	0.75 (beans)	2.0	Soil application to furrow at time of planting. Do not apply more than once per season.
	5.0 (on vines)		
Beans			
Dry	0.75 (beans)	2.0	60 days. Soil application to furrow at time of planting or as side-dressing after emergence.
	5.0 (vines)		
Broccoli	0.75	1.0	Soil application by drilling, or side-dressing. Do not apply more than once per season.
		2 1/2 oz. of 2% granular per 50 ft. of row	14 days. Apply in a band on each side of seed furrow at planting time, or as a side-dressing after plants become established. When treating individual plants apply 1 level teaspoonful per plant in transplant hole. Make only one application per season.

*Proprietary name: "Di-Syston"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Brussels Sprouts	0.75	lbs. actual/A. 1.0	30 days. Soil application to furrow at time of planting or as side-dressing after emergence. Do not apply more than twice per season.
Cabbage	0.75	2 1/2 oz. of 2% granular per 50 ft. of row 1.5	Apply in a band on each side of seed furrow at planting time, or as side-dressing after emergence. When treating individual plants apply 1 level teaspoonful per plant in transplant hole. Do not apply more than twice per season. 30 days of harvest.
Cauliflower	0.75	2 1/2 oz. of 2% granular per 50 ft. of row 1.0	42 days. Apply in a band on each side of seed furrow at planting time, or as a side-dressing after plants become established. When treating individual plants apply 1 level teaspoonful per plant in transplant hole. Make only one application per season.
Clover	5 (fresh clover) 12 (clover hay)	2 1/2 oz. of 2% granular per 50 ft. of row 1.0	Soil application to furrow at time of planting or as sidedressing after emergence. Do not apply more than twice per season. Do not apply within 40 days of harvest. 40 days. Apply in a band on each side of seed furrow at planting time, or as side-dressing after emergence. When treating individual plants apply 1 level teaspoonful per plant in transplant hole. Do not apply more than twice per season.
			Broadcast application as needed. Do not apply within 7 days of harvest or grazing. Allow a minimum of 28 days between application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Coffee		lbs. actual/A. 0.3 to 0.6 grams actual per foot of tree height	Apply uniformly under tree canopy once per season. Do not apply within 90 days of harvest.
Corn	0.75 (corn forage)	1.0	Apply at planting time: Band application. Do not feed forage or cut treated corn for feed or ensilage within 40 days after application. Do not harvest for human food purposes within 100 days of treatment. or Postplanting application as sidedressing. Apply as sidedress or soil injection on each side of furrow after emergence. Do not feed forage or cut treated corn for food, feed, or ensilage within 100 days of treatment. Do not apply to corn more than once per season regardless of the method of application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton (Nonirrigated)	0.75 (seed)	lbs. actual/A. 1.0	Granular formulation. Apply by drilling or sidedressing at time of planting or as a broadcast treatment after crop emerges. Do not apply within 28 days of harvest. Do not apply more than twice per season. Allow a minimum of 21 days between applications.
Cotton (Irrigated only)	0.75 (seed)	1.0 or 2.0	Granular formulation. Apply one lb. actual per acre at time of planting followed by: Up to 2 lbs. actual per acre as late as first squaring (90 days before harvest) or Up to 1 lb. actual per acre as late as 28 days before harvest. Do not apply more than twice per season. Allow a minimum of 21 days between applications.
Lettuce	0.75	2.0	Soil application to furrow or as sidedressing at time of planting. or Apply in fall or winter seeded lettuce as a sidedressing at thinning time. Do not apply within 60 days of harvest.
Oats	0.75 (grain) 5.0 (forage or straw)	1.0	Soil application at time of planting or after emergence. Do not apply more than twice per season. Do not apply within 60 days of harvest. Do not graze or cut for forage within 30 days after treatment.
Peanuts	0.75 (peanuts) 5.0 (peanut hay)	2.0	Granular: Soil application to furrow or as sidedressing at time of planting and as sidedressing at pegging time. Liquid: Spray in furrow or as soil injection sidedressing at time of planting, and at pegging time.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-2 PYRAZINYL PHOSPHOROTHIOATE*

PRINCIPAL FORMULATIONS: 10% granular; emulsifiable concentrate containing 4 lbs./gal.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Asparagus		lbs. actual/A. 10.0	Broadcast soil application prior to transplanting or after transplanting before first spears emerge. Mix thoroughly into soil immediately after application. Do not harvest crop until second year after application. Do not apply to established beds.
Beans Snap		2.0	Preplanting broadcast soil application. Use proportionally less for band applications. (Pacific Northwest and Colorado only).
Broccoli		2.0	Preplanting broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
		0.03% in water	Soil application at the rate of 6 fluid ounces per plant at time of transplanting. Over dosage may cause plant damage. (Pacific Northwest only)
Brussels sprouts		2.0	Preplanting broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
		0.03% in water	Soil application at the rate of 6 fluid ounces per plant at the time of transplanting. Over dosage may cause plant damage. (Pacific Northwest only)
Cabbage		2.0	Preplanting broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
		0.03% in water	Soil application at the rate of 6 fluid ounces per plant at time of transplanting. Over dosage may cause plant damage. (Pacific Northwest only).

*Proprietary Name: "Zinophos"

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-2 PYRAZINYL PHOSPHOROTHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cauliflower		2.0	Preplanting broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
		0.03% in water	Soil application at the rate of 6 fluid ounces per plant at time of transplanting. Over dosage may cause plant damage. (Pacific Northwest only)
Corn		2.0	Preplant broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
Cotton		1.0	Use restricted to North and South Carolina. Preplanting or at planting row application as a band.
Mint		5.0	Broadcast soil application in fall immediately prior to fall plowing or in April. Mix with soil immediately after application. (Pacific Northwest only)
Peanuts		3.0	Soil application at time of planting. Apply as a 12 inch band centered over row.
Strawberries		2.0	Preplant broadcast soil application. Use proportionally less for band applications. (Pacific Northwest only)
		1.5	Spray over row after harvest but not later than August 15.
		4 oz. of 4 lb./ gal. E.C./100 gals. water	Post plant drench. Apply 8 ozs. of solution per plant. Do not apply within 90 days of harvest.
Sugar beets		2.0	Preplant broadcast soil application. Use proportionally less for band applications. (Colorado only). Do not graze or feed treated sugar beet tops to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL PYRIMIDYL (6)] THIOPHOSPHATE*

PRINCIPAL FORMULATIONS: 25% and 50% wettable powder; 25% and 48% emulsifiable concentrate; 4% dust; 5%, 10% and 14% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa	40 on fresh alfalfa 10 on hay	lbs. actual/A.	
		0.5 (spray)	Dairy cattle, beef cattle, and sheep; (1) may be grazed immediately following application; (2) may be fed green alfalfa immediately following cutting; and (3) may be fed hay provided alfalfa is not cut for hay for 7 days following treatment. Do not spray livestock directly with either air or ground equipment. or Do not graze livestock on treated forage within 4 days after application. Do not cut for hay within 7 days after application.
		0.6 (dust)	Do not apply within 7 days of cutting or grazing by animals being finished for slaughter.
		4.0	Preplanting broadcast soil application.
		1.5	Do not graze livestock within 2 days after application. Do not cut for hay within 10 days after application.
Almonds	3.0 (in or on hulls)	6.0	No time limitations.
Apples	0.75	6.0	Full coverage spray. 14 days.
Apricots	0.75	4.0	Full coverage spray. 10 days.

*Proprietary name: "Diazinon"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bananas		lbs. actual/A. 2.0 0.0165 (oz. per stem) 0.033 (oz. per stem)	Apply to soil around mats 3 to 4 times at monthly intervals. Application should be made with hand or ground equipment. Wettable powder. Apply to inner surface of polyethylene bag which is tied securely around newly developing stem and left in place until harvest. Granular formulations. Apply in paper or plastic envelope and attach to stalk above bottom hand of newly developing stem. Then cover stem with polyethylene bag which is left in place until harvest.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans (pole)		10.0	Preplanting broadcast soil application.
Beans (snap)	0.75 (snap beans)	0.5 (spray)	Do not apply within 7 days of picking beans. (After harvest is complete, treated forage may be fed to livestock after 1 day following treatment or cut for hay after 4 days following treatment.)
	25.0 (forage)	1.4 (dust)	7 days.
	10.0 (hay)	10.0 2.0 (granular)	Preplanting broadcast soil application. Apply in a 6 inch band over row when plants are $\frac{1}{2}$ to 1 inch tall.
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Beets	0.75 (roots and tops)	10.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bermuda grass	60 ppm on grass of which not more than 40 ppm shall remain 24 hrs. after applica- tion 10 ppm on grass hay	lbs. actual/A. 0.5	Diary cattle, beef cattle and sheep; (1) may be grazed immediately following application; (2) may be fed green forage immediately following cutting; and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat the application for 30 days.
Blueberries	0.75	1.0	7 days.
Broccoli	0.75	0.5 (spray) 1.6 (dust)	5 days.
		1.0	Furrow and seed treatment at time of planting.
		0.06% (in water)	Apply as a transplant solution at the rate of one cupful per plant.
		3.0	Plant beds only. Preseeding broadcast soil application.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Cabbage	0.75	0.5 (spray) 1.6 (dust)	7 days.
		1.0	Furrow and seed treatment at time of planting.
		0.06% (in water)	Apply as a transplant solution at the rate of one cupful per plant.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cabbage (cont.)	0.75	lbs. actual/A. 3.0	Plant beds only. Preseeding broadcast soil application.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		10.0	Preplanting broadcast soil application.
Caneberries:	0.75	1.0	7 days.
Blackberries Boysenberries Dewberries Loganberries Raspberries		6.0	Apply as a drench to lower canes and crown area. Do not apply when fruit is present.
Carrots	0.75	0.5 (foliar spray)	10 days.
		10.0	Preplanting broadcast soil application.
		2.0	Apply to seed furrow at time of planting.
Cauliflower	0.75	0.5 (spray) 1.6 (dust)	5 days.
		1.0	Furrow and seed treatment at time of planting.
		0.06% (in water)	Apply as a transplant solution at the rate of one cupful per plant.
		3.0	Plant beds only. Preseeding broadcast soil application.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-FYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Celery	0.75	0.5	10 days.
		4.0	Preplanting broadcast soil application.
Cherries	0.75	5.0	Postharvest application only.
		4.0	10 days.
Clover	40 (fresh clover)	0.6	Dust or spray application. Do not apply within 7 days of cutting or grazing by animals being finished for slaughter.
	10 (clover hay)	4.0	Preplanting broadcast soil application.
Collards	0.75	0.5 (spray) 1.6 (dust)	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Corn	0.75 (on ker- nels & cob with husks removed)	1.25 (spray)	Corn may be picked immediately following last application. Corn forage may be fed to dairy cattle, beef cattle, and sheep.
			or
			No time limitations on corn (fresh) or (grain). Do not feed treated forage to livestock within 2 days after treatment.
	40.0 (on corn forage)	2.0	Corn may be picked immediately following last application. Do not feed forage to livestock within ten days following last application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn (cont.)	0.75 (on kernels & cob with husks removed)	lbs. actual/A. 1.6 (dust)	Do not apply within 2 days of harvest. Do not feed treated forage to animals being finished for slaughter within 2 days after treatment.
		1.0	Apply as a spray around base of plants, between time of planting and last cultivation.
	40.0 (on corn forage)	2.0	Soil application to furrow at time of planting, or in a 10 inch band over row at planting time or when crop begins to emerge.
		10.0	Preplanting broadcast soil application.
Corn (seed)		2 oz./bu.	Do not use as food or feed.
Cotton		0.5 (spray)	14 days. Do not graze dairy or meat animals in treated fields. Do not feed gin waste to livestock.
		1.0 (dust)	
Cotton (seed)		2 oz./bu.	Do not use as food or feed.
Cowpeas		4.0	Preplanting broadcast soil application.
Cranberries	0.75	3.0	7 days.
Cucumber	0.75	0.5 (spray)	7 days.
		1.6 (dust)	
Endive	0.75	4.0	Preplanting broadcast soil application.
		0.5	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Figs	0.75	4.0	Full coverage spray. 10 days.
		2.5	Full coverage spray. 5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Filberts		2.0	No time limitations. Repeat as necessary.
Grapefruit	0.75	10.0	21 days.
Grapes	0.75	1.0	10 days.
Grass hay	10.0	0.5 (in water)	Do not graze livestock on treated forage. Do not cut for hay within 21 days after treatment.
		0.5 (in oil)	Do not graze livestock on treated forage. Do not cut for hay within 30 days after treatment.
Hops	0.75	1.0 (spray) 2.0 (dust)	14 days.
Kale	0.75	0.5 (spray) 1.6 (dust)	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Lemons	0.75	10.0	Full coverage spray. 21 days.
Lespedeza		4.0	Preplanting broadcast soil application.
Lettuce	0.75	0.5	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		10.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Lima beans	0.75 (lima beans)	0.5 (spray)	Do not apply within 7 days of picking beans. (After harvest is complete, treated forage may be fed to livestock after 1 day following treatment or cut for hay after 4 days following treatment).
	25.0 (forage)		
	10.0 (hay)	1.4 (dust)	7 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
		2.0 (granular)	Apply in a 6 inch band over row when plants are 1/2 to 1 inch tall.
Lima beans (seed)		2 oz./bu.	Do not use as food or feed.
Melons	0.75	0.75 (spray) 1.4 (dust)	3 days.
		4.0	Preplanting broadcast soil application.
Mung beans		2.0 (granular)	Apply in a 6 inch band over row when plants are 1/2 to 1 inch tall.
Mustard		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
Nectarines	0.75	4.0	Full coverage spray. 10 days.
Oats (seed)		2.0 oz./bu.	Do not use as food or feed.
Olives	1.0	12.0	75 days.
Onions (including green onions)	0.75	0.5 (spray) 1.2 (dust)	10 days.
		4.0	Preplanting broadcast soil treatment.
		1.5	Apply to furrow at time of planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Oranges	0.75	10.0	Full coverage spray. 21 days.
Parsley	0.75	0.5 (spray) 1.6 (dust)	12 days.
		4.0	Preplanting broadcast soil application.
Parsnips	0.75	0.5	7 days.
		4.0	Preplanting broadcast soil application.
Pasture and Grass forage	60 ppm on grass of which not more than 40 ppm shall remain 24 hours after applica- tion 10 ppm on grass hay	0.5	Dairy cattle, beef cattle and sheep; (1) may be grazed immediately following application; (2) may be fed green forage immediately following cutting; and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat application for 30 days.
Peaches	0.75	4.0	20 days.
Peanuts		4.0	Apply just prior to pegging and work into top few inches of soil immediately.
		2.0	Do not feed treated hulls to livestock. Do not feed peanut hay to livestock within 60 days after treatment.
Pears	0.75	12.0	Postharvest application.
		6.0	Full coverage spray. 14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Peas	0.75 (peas with shells removed)	lbs. actual/A. 0.5	Peas may be picked immediately. Peavines and peavine hay may be fed to dairy cattle, beef cattle, and sheep. Wait 4 days following treatment if forage is to be cut for hay.
	10 (peavine hay)	10.0	Preplanting broadcast soil application.
	25 (peavines)		
Peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Pecans		5.0	Do not apply after shucks split.
Peppers	0.75	5.0	No application after first bloom.
		0.25 (spray) 1.6 (dust)	5 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Pineapple	0.75 (pine- apple)	2.0	Pineapple forage and refuse may be fed to livestock 7 days after last application.
	40 (pine- apple forage)	5.0	Postharvest application to vegetative slips on the plants.
Pinto beans		2.0 (granular)	Apply in a 6 inch band over row when plants are 1/2 to 1 inch tall.
Potatoes		2.0	Foliar spray. 14 days.
		2.0	Preplanting band soil application.
		4.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Plums	0.75	4.0	Full coverage spray. 10 days.
Prunes	0.75	4.0	Full coverage spray. 10 days.
Radishes	0.75	0.5	10 days.
		2.0	Apply to furrow at time of planting.
		10.0	Preplanting broadcast soil application.
Rutabagas		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
Rye (seed)		2.0 oz./bu.	Do not use as food or feed.
Sorghum	0.75 (grain)	0.5	Do not apply within 7 days of harvest for grain. Crop may be fed to livestock immediately following treatment.
	10 (forage)	4.0	Preplanting broadcast soil application.
		2.0 (granular)	Apply in a 10 inch band over row at planting time or when crop begins to emerge.
Sorghum (seed)		2.0 oz./bu.	Do not use as food or feed.
Soybeans		4.0	Preplanting broadcast soil application.
		2.0 (granular)	Apply in a 6 inch band over row immediately before planting or when plants are in seedling stage (1 to 2 inches tall).
Soybeans (seed)		2.0 oz./bu.	Do not use for food, feed or oil.
Spinach	0.75	0.5	10 days.
		4.0	Preplanting broadcast soil application.
Squash (winter)	0.75	0.75 (spray) 1.4 (dust)	3 days.
		4.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Squash (summer)	0.75	lbs. actual/A. 0.75 (spray) 1.4 (dust)	7 days.
Strawberries	0.75	4.0 1.0 3.0 1.0 (spray) 1.2 (dust)	Preplanting broadcast soil application. Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil. Postharvest use only. 5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Sugar beets		4.0	Preplanting broadcast soil application.
		0.5	60 days. Do not feed treated tops to livestock.
Sugarcane		4.0 (spray)	Apply in a 12 inch band over seed pieces in open furrow at time of planting.
		6.0 granular	
		2.5 granular	Broadcast application to young plants. Do not apply more than 4 times during growing season. Do not apply within 45 days of harvest or feeding bagasse to livestock. Do not feed leaves and field trimmings to livestock.
		0.5 (spray)	Foliage application. Do not apply within 10 days of harvest or feeding bagasse to livestock. Do not feed leaves or field trimmings to livestock.
Sweet corn	0.75	4.0	Preplanting broadcast soil application.
Sweet potatoes		3.0	Apply at time roots begin to enlarge.
		4.0	Preplanting broadcast soil application.
Swiss chard	0.75	0.5 (spray) 1.6 (dust)	12 days.
		4.0	Preplanting broadcast soil application.
Tomatoes	0.75	0.75 (spray) 0.8 (dust)	1 day.
		1.0 granular	No time limitations.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes (cont.)		1bs. actual/A. 1.6 (dust)	3 days.
		10.0	Preplanting broadcast soil application
Tropical fruits		30 gms./A.	Fruit pomace bait formulation. Do not contaminate fruit.
Turnips	0.75 (roots & tops)	0.75 (spray) 1.6 (dust)	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
			or Apply to furrow at time of planting.
		10.0	Preplanting broadcast soil application.
Walnuts		5.0	Do not apply after shucks split.
Watermelons	0.75	0.75 (spray) 1.4 (dust)	3 days.
		4.0	Preplanting broadcast soil application.
Wheat (seed)		2.0 oz./bu.	Do not use as food or feed.
Rangeland Ditch banks Roadsides Wastelands Noncrop areas Barrier strips	60 ppm on grass of which not more than 40 ppm shall remain 24 hrs. after applica- tion	0.5	Dairy cattle, beef cattle, and sheep; (1) may be grazed immediately following application; (2) may be fed green forage immediately following cutting; and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat the application for 30 days.
	10 on grass hay		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals:		lbs. actual/A.	
Sheep	0.75 (fat, meat, & meat by prod- ucts)	0.03% (in water)	Apply one gallon per animal as a high pressure spray. Do not apply within 14 days of slaughter.
		0.06% (in water)	Apply one quart per animal as a low pressure spray or as a sprinkler can application. Do not apply within 14 days of slaughter.
		2.0% (dust)	Apply 1 1/2 oz. per animal. Do not apply within 14 days of slaughter.
Agricultural Premises:			
Barns		120 mgs./sq.ft.	Apply to interior and exterior surfaces as a residual spray. Do not contaminate milk, feed, or drinking water. Do not apply to animals. (Add sugar or molasses for bait spray.)
Dairy barns			
Milk rooms			
Poultry houses			
Animal sleep- ing quarters			
Etc.		5.0% (dust)	Apply thoroughly in cracks, crevices, and places where insects hide or congregate. Do not contaminate milk, feed, or drinking water.
		2.0% (bait)	Dry sugar bait formulation. Apply 40 gms. of bait per 1000 sq. ft. of floor space.
		10.0 gms./ 100 sq. ft.	Dry sugar bait formulation. Apply over breeding area.
		500 mgs./ft. of cord	Fly killing cord. Hang cord from rafters or ceiling at the rate of 300 ft. per 1000 sq. ft. of floor space.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE*

PRINCIPAL FORMULATIONS: 12.5% and 25.0% wettable powder; 22.2% liquid concentrate; emulsifiable concentrate containing 1.5 lbs. and 2 lbs. per gallon; 2%, 2.5% and 3% dust; 7% and 10% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	2 (fresh forage)	0.75	21 days. Do not apply more than once between cuttings.
	5 (hay)	0.375	14 days. Do not apply more than once between cuttings.
		0.5	16 days. Do not apply more than once between cuttings.
Apples	2.0	6.0	15 days.
Apricots	2.0	2.5	21 days.
Artichokes	2.0	1.5 (spray)	30 days. Do not feed or ensile treated forage.
		2.1 (dust)	
Beans (snap)	2.0	0.5 (spray)	7 days. Do not feed or ensile treated forage.
		0.6 (dust)	
Beans (dry)		0.5 (spray)	30 days. Do not apply more than 4 times per season. Do not feed or ensile treated forage.
		0.6 (dust)	
Blackberries	2.0	0.5 (spray)	14 days. Foliar application.
		0.9 (dust)	
		2.0	Apply only before fruit set or after crop is harvested. Apply to lower portion of canes and to soil beneath plants.
Blueberries	2.0	1.0	3 days. Apply to lower portions of canes and to soil beneath plants. Do not apply more than twice per season.
		1.0	14 days.
		0.6 (dust)	Use restricted to airplane application. Do not apply more than twice per season. Do not apply within 4 hours of harvest.

*Proprietary name: "Guthion"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Boysenberries	2.0	0.5 (spray)	14 days. Foliar application.
		0.9 (dust)	
		2.0	Apply only before fruit set or after crop is harvested. Apply to lower portion of canes and to soil beneath plants.
		1.0	3 days. Apply to lower portion of canes and to soil beneath plants. Do not apply more than twice per season.
Broccoli	2.0	0.75	15 days.
		0.75% (in water)	Apply as a soil drench at the rate of 1/2 pint per plant at the time of transplanting or immediately after.
Brussels sprouts	2.0	0.75% (in water)	Apply as a soil drench at the rate of 1/2 pint per plant at the time of transplanting or immediately after.
		0.75	7 days.
Cabbage	2.0	0.75	21 days.
		0.75% (in water)	Apply as a soil drench at the rate of 1/2 pint per plant at the time of transplanting or immediately after.
Cantaloupes		0.5	14 days.
Cauliflower	2.0	0.75	15 days.
		0.75% (in water)	Apply as a soil drench at the rate of 1/2 pint per plant at the time of transplanting or immediately after.
Cherries	2.0	4.0	15 days. Full coverage spray. Do not apply more than 8 times per season.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Citrus fruits	2 (fruit)	7.5	A single application per year may be applied up to within 7 days of picking. Where 2 applications are required, the second spray should not be applied within 28 days of harvest. Do not apply more than twice per fruit year. Do not pick fruit or do other work involving contact with the tree, such as pruning, within 7 days of treatment.
	5 (dried pulp)		
Clover	2 (fresh forage)	0.75	Do not apply more than once between cuttings. Do not apply within 21 days of harvest.
	5 (hay)	0.375	14 days. Do not apply more than once between cuttings.
		0.5	16 days. Do not apply more than once between cuttings.
Cotton	0.5 (cotton-seed)	1.0	Do not apply within 1 day of picking. If late season applications are made, do not graze livestock on treated areas or feed gin waste.
		0.25	Ultra low volume aerial application. Do not graze livestock in treated areas. Do not feed gin trash to livestock. Do not apply within 2 days of handpicking. Cotton may be machine harvested anytime after application.
Cowpeas		1.0	7 days. Do not apply more than 4 times per season. Do not graze or feed treated forage to livestock.
Crabapples	2.0	3.75	15 days.
Cranberries	2.0	1.0	21 days.
Cucumbers		0.5	6 days. Do not apply more than 3 times per season.
Eggplants		0.5	Do not apply after edible parts begin to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Filberts		7.5	30 days. Do not graze livestock in treated groves within 21 days after application.
Grapes	5.0	0.75	No time limitations. Do not apply more than 3 times per season.
		1.5	28 days. Do not apply more than 3 times per season.
		1.125	10 days. Do not apply more than 3 times per season.
Honeydew melons		0.5	14 days.
Loganberries	2.0	0.5 (spray) 0.9 (dust)	14 days. Foliar application.
		2.0	Apply only before fruit set or after crop is harvested. Apply to lower portion of canes and to soil beneath plants.
		1.0	3 days. Apply to lower portion of canes and to soil beneath plants. Do not apply more than twice per season.
Melons		0.5	14 days.
Nectatines	2.0	2.5	21 days.
		3.0	Do not apply after mid-season.
Oats		0.6	Do not apply more than once per season. Do not apply within 30 days of harvest or grazing livestock.
Onions	2.0	1.5	Apply to furrow at planting.
Onions (dry)		0.75	28 days. Do not apply more than 3 times per season.
Peaches	2.0	2.5	21 days.
		3.0	Do not apply after mid-season.
Pears	2.0	6.0	15 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pecans		10.0	Do not apply after husks split. Do not graze livestock in treated groves.
		5.6	Do not apply after husks split. Do not graze livestock in treated groves within 21 days after treatment.
Peppers		0.5	Do not apply within 5 days of harvest if not more than 4 applications are made. Do not apply within 14 days of harvest if more than 4 applications are made.
Plums	2.0	4.0	15 days. Do not apply more than 8 times per season.
Potatoes		0.75	7 days.
Prunes	2.0	4.0	15 days. Do not apply more than 8 times per season.
Quinces	2.0	6.0	15 days.
Raspberries	2.0	0.5 (spray) 0.9 (dust)	14 days. Foliar application.
		2.0	Apply only before fruit set or after crop is harvested. Apply to lower portion of canes and to soil beneath plants.
		1.0	3 days. Apply to lower portion of canes and to soil beneath plants. Do not apply more than twice per season.
Soybeans		0.75	Do not apply within 21 days of harvest. Do not graze or feed treated plants to livestock.
Spinach	2.0	0.5 (spray) 0.75 (dust)	14 days.
Strawberries	2.0	0.5	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YLMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane	0.3	lbs. actual/A. 1.5	40 days. Do not apply more than 5 times per season. Treated cane must be burned off at harvest or washed before processing. Do not feed treated forage or harvest trash to livestock.
		0.75 (spray)	Use restricted to Louisiana. Apply by aircraft using a minimum of 2 gallons of water per acre. Do not apply within 30 days of harvest nor more than 5 times per season. Do not feed treated forage to livestock.
Tomatoes	2.0	0.75	No time limitations.
Walnuts		10.0	Do not apply after husks split. Do not graze livestock in treated groves within 21 days after treatment.
Wheat		0.6	Do not apply more than once per season. Do not apply within 30 days of harvest or grazing livestock.
Watermelons		0.5	14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL 2,2,2-TRICHLORO-1-HYDROXYETHYL PHOSPHONATE*

PRINCIPAL FORMULATIONS: 50% and 80% soluble powder; 5.0% granular; 5.0% dust;
1.0% sugar baits; 8.0% solution

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		1.0	14 days. Apply only once between cuttings.
Artichokes		2.5	14 days.
Bananas	0.2 (0 in pulp after peel is removed)	0.5	12 days. Do not apply more often than once every 6 months.
Barley		1.0	Do not apply within 21 days of harvest. Do not graze treated fields or feed treated straw to dairy or meat animals.
Beans Dry Snap		1.5	14 days. Do not feed treated vines to meat or dairy animals.
Beets		1.5	28 days.
Brussels sprouts		1.0	21 days.
Cabbage		1.0	21 days.
Carrots		1.5	28 days.
Cauliflower		1.5	21 days.
Collards		1.0	28 days.
Corn		2.0 (granular)	28 days. Do not feed treated forage or ensilage to livestock.
		1.0 (spray)	One application per season when plants are 3-12 inches high. Spray lower portions of plant and soil around base. Do not use corn for food, feed or ensilage within 40 days of treatment.

*Proprietary names: "Dipterex," "Dylox," and "Neguvon"

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O,O-DIMETHYL 2,2,2-TRICHLORO-1-HYDROXYETHYL PHOSPHONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton		2.0	Do not apply within 7 days of picking. Do not graze livestock in treated fields within 14 days after application.
Cowpeas		1.5	14 days. Only 2 applications per season. Do not feed treated vines to meat or dairy animals.
Flax		1.0	21 days. Do not graze treated fields or feed treated straw to dairy or meat animals.
Kale		1.5	21 days.
Lettuce		1.0	28 days.
Lima beans		1.5	30 days. Do not apply more than twice per season.
Oats		1.0	Do not apply within 21 days of harvest. Do not graze treated fields or feed treated straw to dairy or meat animals.
Peppers		1.0 (spray) 1.25 (dust)	21 days.
Pumpkins		1.0 (spray) 1.5 (dust)	14 days. Only 1 application per season.
Rutabagas		1.5	28 days. Do not use tops as food or feed.
Safflower		1.5	Do not apply after flowering stage.
Sugar beets		1.5	14 days. Do not feed tops which have been treated within 28 days of harvest to livestock.
Tomatoes		1.0 (spray) 1.25 (dust)	21 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL 2,2,2-TRICHLORO-1-HYDROXYETHYL PHOSPHONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes (cont.)		lbs. actual/A. 1.5	Apply to tomatoes in the field immediately before harvest. Apply only to tomatoes to be cooked as in canning before consumption. Do not apply to tomatoes which are to be marketed fresh.
		5.0% (dust) 0.8% (spray)	Postharvest application to tomatoes as they are placed in containers. Apply only to tomatoes to be cooked as in canning before consumption. Do not apply to tomatoes which are to be marketed fresh.
Turnips		1.5	28 days. Do not use tops as food or feed.
Vegetables (all)		5.0% (dust)	Apply a band 6" wide and 1/8" deep along edge of field. Do not contaminate food crops.
Wheat		1.0	Do not apply within 21 days of harvest. Do not graze treated fields or feed treated straw to dairy or meat animals.
Animals:			
Beef cattle		1.0% (in water)	Apply to the point of run-off. Repeat as necessary. Do not apply within 14 days of slaughter. Do not apply to dairy animals.
		0.5 fluid oz. of 8% solution/ 100 lbs. of body weight	Pour uniformly along animal back. Do not apply to dairy animals. Do not apply to beef cattle within 21 days of slaughter. Do not apply more than 4 fluid oz. of 8% solution or 0.32 oz. act. Neguvon per animal.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL 2,2,2-TRICHLORO-1-HYDROXYETHYL PHOSPHONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises:		lbs. actual/A.	
Barns		56.0 gms./	Apply as a bait spray to selected
Dairy barns		1,000 sq. ft.	interior surfaces. Do not contaminate
Hog pens		(in water)	milk, milk handling equipment, feed or
Milk rooms			drinking water.
Poultry houses		2.0%	Wet bait formulations. Apply 4 table-
Etc.			spoonfuls per 1,000 sq. ft. of floor
			space. Do not contaminate milk, milk
			handling equipment, feed or drinking
			water.
		0.1%	Wet bait formulation. Apply as a spot
			treatment by brushing, or spraying. Do
			not contaminate milk, milk handling
			equipment, feed, or drinking water.
		1.0%	Impregnated adhesive tape with bait.
			Apply at random on interior surfaces
			throughout building.
		1.0%	Dry bait formulation. Apply 4 oz. per
			1,000 sq. ft. of floor space. Do not
			contaminate milk, milking equipment,
			feed or drinking water.
Agricultural Premises:			
Barns		90.7 mgs./	Spray or bait spray with sugar. Apply
(excluding		1,000 sq. ft.	to floors, walls, ceilings, around doors,
dairy barns)		(in water)	windows, and other areas where flies
Stock pens			congregate. Remove animals before
Etc.			spraying. Do not treat portions of
			building where poultry feed. Do not
			contaminate feed, water, or milk
			handling equipment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,3-p-DIOXANEDITHIOL-BIS-(O,O-DIETHYLPHOSPHORODITHIOATE)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peaches		4.0	Do not apply after fruit begins to form.
Pears	4.9	6.0	7 days. Do not apply more than 7 times after fruit starts to form. Do not feed pomace from treated fruit to meat or dairy animals.
Plums		4.0	Do not apply after fruit begins to form.
Prunes		4.0	Do not apply after fruit begins to form.
Quinces	4.9	6.0	7 days. Do not apply more than 7 times after fruit starts to form. Do not feed pomace from treated fruit to meat or dairy animals.
Tangeloes	2.8	12.5	Do not make reapplication within 3 months if fruit is present during first application.
Tangerines	2.8	12.5	Do not make reapplication within 3 months if fruit is present during first application.
Walnuts		4.0	Do not apply after husks split.
Animals:			
Beef cattle	1.0	0.15%	Dip or spray. Do not dip animals under 3 months of age. Do not reapply within 2 weeks. Do not apply to dairy animals.
Sheep	(in fat)	(in water)	
Goats		0.15%	Apply freely to wounds, cuts, and abrasions. Do not apply to dairy animals.
Swine		(smear or gas propelled spray)	
Beef cattle	1.0	0.6%	Apply by pouring one quart on back and shoulders of each animal. Do not reapply within 30 days. Do not apply to dairy animals.
	(in fat)	(in water)	
		1.5%	For use in backrubber.
		(in oil)	

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIPHENAMID*

PRINCIPAL FORMULATIONS: 50% and 80% wettable powder; 5% granules

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples		6.0	Apply to orchard floor after clean cultivation. Do not apply within 90 days of harvest. Do not graze livestock on treated areas.
Cabbage		6.0	Broadcast application at time of transplanting.
Cotton		4.0	Preemergence application at time of planting. Do not graze treated areas or feed treated plant parts to livestock.
Okra		5.0	Preemergence application at time of planting.
Peaches		6.0	Apply to orchard floor after clean cultivation. Do not apply within 90 days of harvest. Do not graze livestock on treated areas.
Peanuts		6.0	Apply at time of planting, soil cracking, or 7 days later.
		3.0	Postemergence application at cracking time or 7 days later. Used in combination with 1.5 lbs. of DMBP amine.
Peppers		5.0	Preemergence application to direct seeded crop. or Broadcast application within one month after transplanting or seeding.
Potatoes		6.0	Apply at time of planting or immediately after.
Soybeans		5.0	Preemergence application at time of planting. Do not graze treated areas or feed treated plant parts to livestock.

*N,N-dimethyl-2,2-diphenylacetamide

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Replaces page issued 10-1-65

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIPHENYL

PRINCIPAL FORMULATIONS: 1.75% and 2% impregnated wraps; 16.67% impregnated liners;
25.1% impregnated pads

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Citrus Fruits:			
Grapefruit	110	2.0%	Impregnated fruit wrapper.
Lemons	110	(0.091666 lbs.	
Oranges	110	act./1000 sq. ft of paper)	
		25.10%	Impregnated pad, 2 pads per 4/5 bu. box.
		16.67%	Impregnated liners for boxes.

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Replaces page issued 7-1-64

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIPHENYL AMINE

PRINCIPAL FORMULATIONS: Technical material; 83% wettable powder; 0.1% impregnated wraps; 0.2% wax emulsion

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	10	20 lbs./A.	Preharvest application to fruit within 36 hours of harvest. Do not graze cover crops in treated orchards. Do not use treated apples in the manufacture of pomace for livestock feed.
		0.1% impregnated paper wraps	Do not use individual wraps on apples treated with preharvest sprays of diphenyl amine.
		2,000 ppm	Postharvest dip, spray, or foam application before packing. Apply within 7 days after harvest. Do not apply to fruit receiving preharvest treatment of diphenyl amine. Do not wrap treated apples.
Animals:			
Beef cattle	0	60%	Screw-worm smear or liquid formulations.
Dairy cattle	in milk		Apply liberally as a spot treatment to
Sheep & Goats	& meat		wounds, cuts, and scratches. Repeat
Swine			until healing is complete.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIURON*

PRINCIPAL FORMULATIONS: 80% wettable powder; 28% liquid; 2%, 5%, 16%, and 20% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa Established	2	3.2	Dormant and semi-dormant application to established alfalfa (1 year or older).
Apples (orchards)	1	3.2	Apply as a directed spray to orchard floor during winter (Dec.-Feb.) or spring (Mar.-May), or as a split application in winter and spring. Total dosage should not exceed 3.2 lbs./acre/season.
Asparagus	7	3.2	Irrigated asparagus--apply during late Nov. or Dec. or Nonirrigated asparagus--apply 4 weeks before spears emerge or during early cutting period, and immediately following harvest. Total dosage should not exceed 4.8 lbs. per acre per season. Do not replant treated area to any crop within 2 years after last application.
Artichokes	1	3.2	Apply during late fall or early winter after last cultivation. Do not replant treated area to any crop within 2 years after last application.
Banana	0.2	2.4	Apply after planting. Do not apply directly over planted material.
		4.8	Established planting. Apply as directed spray with surfactant. Repeat at 6 week intervals as needed. Do not apply more than 9.6 lbs. active per acre per 12 months. Do not replant to any crop for 2 years, except sugarcane and pineapple after 1 year.
Barley (winter)	1 (grain) 2 (hay, forage, straw)	1.6	Preemergence application to drill planted barley. Do not replant to any crop within one year after last application.

*3-(3,4-dichlorophenyl)-1,1-dimethyl urea

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIURON

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Birdsfoot Trefoil	2 (hay & forage)	1.6	Apply as dormant spray Oct. 15-Dec. 15. Do not replant to any crop within 1 year of last application.
Blueberries	1	2.4	Apply directed spray in Jan. or Feb. (Reduce to 1.6 lbs./acre in split applica- tion in Oct.-Nov. and late spring). Do not replant to any crop within 2 years after last application.
Caneberries Blackberries Boysenberries Dewberries Loganberries Raspberries	1	2.4	Apply directed spray Jan. or Feb. (Reduce to 1.6 lbs./acre in split application in Oct.-Nov. and late spring). Do not replant to any crop within 2 years after last application.
Citrus:	1	8.0	Single application per year at any time of year under well established trees only. Do not spray fruit or foliage.
Grapefruit Oranges Tangeloes Tangerines	4 (in pulp)		
Grapefruit Lemons Oranges		3.2	Single application per year under well established trees only. Do not spray fruit or foliage.
		1.6	Split applications (2 per year) under well established trees only. Do not spray fruit or foliage.
		32.0	Apply to irrigation and drainage ditches when not in use, before growth starts or soon after mechanical cleaning, and before seasonal rains. If less than 4 inches rainfall before use, fill ditch with water, let stand 72 hrs., drain and waste water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIURON

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn Field	2.0 (forage)	0.8	Preemergence soil application.
	1.0 (grain)	0.8	Apply as a directed spray at time of last cultivation when crop is 20-30 inches high and weeds are less than 3 inches tall. Do not replant treated areas to any crop within 1 year except cotton, corn, and grain sorghum which may be planted the spring of the year following treatment.
Cotton	1.0 (cotton- seed)	1.6	Preemergence application. Do not plant crops other than cotton, corn, or grain sorghum on treated land in the spring following treatment. or Apply at time of last cultivation as a directed spray when cotton is 12 or more inches tall. Do not plant crops other than cotton, corn, or grain sorghum on treated land in spring following treatment. If both preemergence and early postemergence applications have been made, reduce dosage so that total dosage for season does not exceed 3.2 lbs./A.
		0.4	Early postemergence application as a directed spray when crop is 6 or more inches tall. Two applications as needed.
		2.0	Preplanting application in irrigated cotton.
Gooseberries	1	2.4	Apply directed spray January or February. (Reduce to 1.6 lbs./acre in split application in October-November and late spring).

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DODINE*

PRINCIPAL FORMULATIONS: 4.65% and 65% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	5	4.0	7 days. Do not use treated apples in the manufacture of apple pomace for use in livestock feeds.
		1.6	5 days. Do not use treated apples in the manufacture of apple pomace for use in livestock feeds.
Black walnuts		6.5	Do not graze meat or dairy animals in treated groves.
Cherries (sour & sweet)	5	2.5	No time limitation.
		3.25	Postharvest or up to petal fall.
Peaches		6.5	Western states only. Dormant and/or delayed dormant application only.
		1.62	Western states only. Do not apply after petal fall.
Peanuts		0.65	Do not feed treated peanut vines to meat or dairy animals.
Pears	5	4.0	7 days.
		1.6	5 days.
Pecans		4.6	Do not apply after shucks have started to open. Do not graze meat or dairy animals in treated groves.
Strawberries	5	1.3	14 days.

*Dodecylguanidine acetate

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Replaces pages issued 10-1-65

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DORMANT OILS*

PRINCIPAL FORMULATIONS: Usually marketed as emulsifiable concentrates containing a high percentage of oil

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Apples	Exempt	248.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Apricots	Exempt	140.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Blackberries	Exempt	30.0	Dormant application only.
Blueberries	Exempt	30.0	Dormant application only.
Boysenberries	Exempt	30.0	Dormant application only.
Cashews	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Cherries	Exempt	140.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Chestnuts	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Cranberries	Exempt	30.0	Dormant application only.
Currants	Exempt	30.0	Dormant application only.
Dewberries	Exempt	30.0	Dormant application only.
Figs	Exempt	70.0	Apply during dormancy when temperature is above 40°F.
Filberts	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Gooseberries	Exempt	30.0	Dormant application only.

*Phytotoxic to foliage; see also "Summer Oils," "Mineral Oil," and "Petroleum Solvents."

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Barley		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Beans		1.0	Do not apply after pods start to form. Do not feed treated threshings to live-stock.
Beans (dry)		1.0	Do not apply within 40 days of harvest.
Blueberries		1.5	Do not apply after buds are well formed.
Broccoli	2	1.0	7 days.
Cabbage	2	1.0	7 days.
Cauliflower		0.75	Do not apply after edible parts start to form.
Cherries	2	2.5	Do not apply more than twice after shucks split. Do not apply within 21 days of harvest.
		3.0	Postharvest application only.
		0.75 lbs./ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply more than twice after shucks split. Do not apply within 21 days of harvest.
Clover		3.0	Do not feed treated forage to dairy animals or animals being fattened for slaughter. Do not use on forage to be sold commercially or shipped interstate.
Citrus:			
Nursery &		2.5	Do not apply to bearing trees or to trees that will bear fruit within 12 months.
Non-bearing stock		or	
		0.25 lbs. actual/100 gals. water	

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton		1.5	Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.
		0.75	Do not apply after 25% of bolls are open. Do not graze meat or dairy animals in treated fields.
Cucumbers	2	1.0	No time limitations.
Eggplants	2	0.5 (spray)	1 day.
		0.6 (dust)	1 day.
Filberts		2.0	No time limitations.
Grapes	2	1.5	7 days.
Lettuce (head)	2	1.0	Do not apply more than 3 times after thinning. Do not apply within 14 days of harvest. Remove outside leaves at harvest. Do not feed crop waste to live-stock.
Macadamia nuts		15.0	No time limitations.
Melons	2	1.0 (spray)	No time limitations.
		1.5 (dust)	
Nectarines	2	4.0	Foliar application. 30 days. Do not apply more than twice during fruiting season.
		0.75/ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply within 21 days of harvest.
			or
			Thoroughly wet trunk and main branches. Do not apply more than twice during fruiting season. Do not apply within 30 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Oats		lbs. actual/A. 0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Peaches	2	4.0	Foliar application. 30 days. Do not apply more than twice during fruiting season.
		0.75/ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply within 21 days of harvest. or Thoroughly wet trunk and main branches. Do not apply more than twice during fruiting season. Do not apply within 30 days of harvest.
Pears	2	2.5	7 days. Do not apply more than twice during fruiting season.
		2.0	Apply to orchard floor and ground around trees. Do not graze livestock on treated orchards. Do not apply after petal fall.
		3.0	30 days. Apply thoroughly to foliage and fruit. Do not apply more than once during fruiting season.
Peas (grown for seed purposes only)		0.75	Do not feed treated vines or threshings to dairy or meat animals.
Pecans		10.0	Do not apply after shuck-split. Do not graze meat or dairy animals in treated groves.
Peppers	2	0.5 (spray) 1.0 (dust)	1 day.
Plums	2	2.5	7 days.
		0.75/ 100 gals. water	Spray on bark from scaffold branches to ground. Do not apply within 21 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		lbs. actual/A. 2.5	No time limitations.
Prunes	2	2.5	7 days.
		0.75/ 100 gals. water	Spray on bark from scaffold branches to ground. Do not apply within 21 days of harvest.
Pumpkins	2	1.0	No time limitations.
Rye		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Safflower		1.0	Do not apply after flower heads open.
Soybeans		0.5 (spray) 0.6 (dust)	Do not apply after pods start to form. Do not feed treated threshings to livestock.
Squash (summer & winter)	2	1.0	No time limitations.
Strawberries	2	4.0	4 days. Do not reapply within 35 days when fruit is present.
		1.0	4 days. Do not reapply within 15 days or more than twice within a 35 day period when fruit is present.
		0.25/ 50 gals. water	Dip transplants prior to transplanting.
Sugar beets		1.0	Do not feed treated tops to livestock.
Sugarcane		0.45	Do not apply within 60 days of harvest. Do not apply more than 4 times per season. Do not feed bagasse or field trimmings to livestock.
Tomatoes (field & greenhouse)	2	1.0	1 day.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Tomatoes (greenhouse)	2	0.1/ 50,000 cu. ft.	Do not apply within 15 hours of harvest. Keep greenhouse tightly closed for 2 hours after application.
Walnuts		2.0	Do not apply after husks split.
Watercress	2	1.0	7 days.
Wheat		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.

12th Jan

Date	Time (hrs)	Temp	Wind
12/1	10.0	10.0	10.0
12/1	11.0	11.0	11.0
12/1	12.0	12.0	12.0
12/1	13.0	13.0	13.0
12/1	14.0	14.0	14.0
12/1	15.0	15.0	15.0
12/1	16.0	16.0	16.0
12/1	17.0	17.0	17.0
12/1	18.0	18.0	18.0
12/1	19.0	19.0	19.0
12/1	20.0	20.0	20.0
12/1	21.0	21.0	21.0
12/1	22.0	22.0	22.0
12/1	23.0	23.0	23.0
12/1	24.0	24.0	24.0
12/1	25.0	25.0	25.0
12/1	26.0	26.0	26.0
12/1	27.0	27.0	27.0
12/1	28.0	28.0	28.0
12/1	29.0	29.0	29.0
12/1	30.0	30.0	30.0

12/1

12th Jan 1964

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN*

PRINCIPAL FORMULATIONS: 1.5% dust; emulsifiable concentrate containing 1.6 lbs. per gallon; 0.75% and 2.0% baits

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		0.25	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is 4 inches tall.
Almonds		2.0	70 days. Do not graze dairy animals or animals being finished for slaughter on treated forage.
Artichokes		0.75	30 days. Single application.
Asparagus			
Green		0.75%	Dry bait formulations. Apply to soil around plants. Do not apply around leafy vegetables. Do not contaminate plants.
White		(40 lbs./acre)	
Barley		0.25	45 days. Single application.
Birdsfoot Trefoil		0.125	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is more than 2 inches tall.
Clover		0.125	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is more than 2 inches tall.
Corn			
Field		0.5	Apply when southwestern corn borer egg masses are present on 25% of the stalks. Repeat application one week later. Do not feed forage or ensilage from treated fields to meat or dairy animals.

*1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro
1,4-endo-endo-5,8-dimethanonaphthalene

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn		lbs. actual/A.	
Field Sweet		0.25	Single application. Do not apply within 45 days of harvest or cutting for ensilage.
Cotton	0	0.7	Apply for control of cutworms. Do not graze dairy animals or animals being finished for slaughter on treated fields. Workers entering fields within 5 days after treatment should be protected.
		0.5	Do not graze dairy animals or animals being finished for slaughter on treated fields. Workers entering fields within 5 days after treatments should be protected.
Cotton (seed)		2.0 oz./100 lbs.	Do not use as food or feed.
Cucumbers	0	0.25	14 days.
Deciduous Fruits:			
Apples Apricots Cherries Nectarines Peaches Pears Plums Prunes Quinces		2.4	Post-harvest application to orchard floor in Oct. or Nov. Apply at 500 psi pressure. Do not cultivate prior to application or within 2 months thereafter. Do not treat areas where runoff will contaminate streams, ponds, or domestic water supplies. Do not graze orchards, cut forage for hay, or allow drop fruit to be utilized for any purpose. Post or otherwise prevent entry to treated area within 30 days after treatment.
Eggplants	0	0.25	14 days.
Grapes		0.5	Dust formulations: 30 days. Spray formulations: Single application. Do not apply after buckshot stage or within 46 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Lettuce		0.5	40 days. Do not apply after 5-6 leaf stage.
Oats		0.25	45 days. Single application.
Peppers	0	0.5	14 days.
Potatoes	0	0.8	3 days.
Pumpkins		0.5	14 days.
Rye		0.25	45 days. Single application.
Sorghum:			
Forage		0.25	Single application. Do not apply within
Grain			35 days of harvest or cutting for
			ensilage.
Squash			
Winter		0.5	14 days.
Summer	0	0.25	14 days.
Strawberries		3.0	Postharvest application or during non-bearing years.
Sugar beets	0	0.4	60 days if tops are to be fed to animals; 20 days if tops are to be plowed under at harvest or are to be composted.
Sugarcane		0.25	45 days. 4-8 applications at 14-day intervals. 2.0% granular formulation only. Do not feed bagasse or field trimmings to livestock.
		0.5	45 days. 4 applications at 21 day intervals. Do not feed bagasse to live- stock.
		0.5	Apply to seed pieces in open row.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Tomatoes	0	0.6	14 days.
		0.8	Bait formulations. 14 days.
Vegetables:			
Asparagus		0.8	Bait formulation for control of cutworms.
Beans			Do not apply around leafy vegetables or
Beets			green asparagus. Apply with equipment
Blackeyed peas			capable of delivering bait to soil
Carrots			surface to avoid contamination of plant
Corn			parts. Follow preharvest limitation
Cowpeas			required for comparable dosage on each
Cucumbers			crop.
Garlic			
Horseradish			
Leeks			
Okra			
Onions			
Parsnips			
Peas			
Peppers			
Pimentos			
Potatoes			
Pumpkins			
Radishes			
Rutabagas			
Salsify			
Shallots			
Squash (summer)			
Squash (winter)			
Sweet potatoes			
Tomatoes			
Wheat		0.25	45 days. Single application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Limes	2.0	7.5	Do not apply more than once per season. Do not apply within 21 days of harvest.
Melons	2.0	1.0 (spray) 1.6 (dust)	No time limitations.
Nectarines		1.5	Apply during dormancy or late dormancy. Do not apply after foliage or edible parts start to form.
Onions Green Bulb	1.0	2.0	Apply to furrow at time of planting.
Oranges	2.0	7.5	No time limitations. Do not repeat application within 90 days.
		10.0	30 days.
Peaches	1.0	1.75 (spray) 2.4 (dust)	30 days. Do not apply more than twice during fruiting season.
Peanuts		1.0	Do not feed forage from treated fields to dairy animals or animals being finished for slaughter. Do not allow livestock to graze treated areas before or after harvest.
Pears	1.0	5.0	60 days. Do not apply more than 3 times after first cover spray.
		2.7	35 days. Do not apply more than twice during fruiting period.
		2.5	30 days. Do not apply more than 3 times after first cover spray.
Pecans		3.0 + 130 lbs. of oil in water	Dormant or delayed dormant application only.
Peppers	1.0	0.5 1.0	No time limitations. 21 days. Do not apply more than three times during fruiting period.
Pimentoes	1.0	0.5	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Plums	2.0	2.5	45 days. Do not apply more than twice during fruiting period.
		1.75	21 days. Do not apply more than 3 times during fruiting period.
Prunes	2.0	2.5	45 days. Do not apply more than twice during fruiting period.
		1.75	21 days. Do not apply more than 3 times during fruiting period.
Sorghum		0.5	Do not apply later than 10 days after first bloom except on sorghum grown only for seed. Some leaf burning may occur on phosphate sensitive varieties. Do not apply more than twice per growing season. Do not graze treated areas or use treated crops for silage.
Strawberries	2.0	1.0 (spray) 1.2 (dust)	2 days.
Summer squash	0.5	0.5	No time limitations.
Tangeloes	2.0	7.5	No time limitations. Do not repeat application within 90 days.
Tangerines	2.0	7.5	No time limitations. Do not repeat application within 90 days. Do not apply more than twice per season.
Tomatoes	2.0	0.5 (spray) 0.8 (dust)	2 days.
		1.2	28 days. Do not apply more than once after fruit begins to form.
Walnuts		3.2	Dormant or delayed dormant application only.
		2.5	Do not apply after husk-split. Do not apply more than twice during fruiting season.

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ETHOXY ETHYL MERCURY CHLORIDE - HYDROXYETHYL MERCURY CHLORIDE MIXTURE

PRINCIPAL FORMULATIONS: 5% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		1 lb./25 gals. water	Preplanting seed piece treatment. Soak seed potatoes 30-60 seconds and dry before planting.
Sugarcane		1 lb./25 gals. water	Dip ends of cane before planting.

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5-ETHOXY-3-TRICHLOROMETHYL-1,2,4-THIADIAZOLE

PRINCIPAL FORMULATIONS: 6.1% and 11.3% emulsifiable concentrates, containing 0.5 lbs. and 1 lb. per gallon + PCNB; 2.5% dust + PCNB; 2.5% granules + PCNB.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		lbs. actual	
		0.38/acre	Apply in furrow at time of planting.
		0.094/100 lb. seed	Acid delinted seed treatment. Do not use for food, feed or oil purposes.
		0.13/100 lb. seed	Machine delinted seed treatment. Do not use for food, feed or oil purposes.
		0.16/100 lb. seed	Fuzzy (reginned) seed treatment. Do not use for food, feed or oil purposes.
		0.1/seed for 1 acre	Planter box supplementary seed treatment.

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ETHYL MERCURY CHLORIDE

PRINCIPAL FORMULATIONS: 0.25%, 1% and 2% wettable powders.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		oz. actual/100 lbs. seed	
Barley		0.010	Planter box seed treatment. Do not use for food, feed or oil purposes.
Cotton		0.18	Seed treatment only. Do not use treated seed for food, feed, or oil.
Oats		0.016	Planter box seed treatment. Do not use for food, feed or oil purposes.
Peanuts		0.06	Seed treatment only. Do not use treated seed for food, feed, or oil.
Peas		0.066	Seed treatment only. Do not use treated seed for food, feed, or oil.
Rye		0.009	Planter box seed treatment. Do not use for food, feed or oil purposes.
Wheat		0.008	Planter box seed treatment. Do not use for food, feed or oil purposes.

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ETHYL MERCURY 2,3-DIHYDROXYPROPYLMERCAPTIDE (6%)
PLUS ETHYL MERCURY ACETATE (1.3%)

PRINCIPAL FORMULATIONS: Mixture of technical materials with inert diluents

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		oz./bu.	
Barley		.25	Seed treatment only. Do not use treated seed for food or feed.
Cottonseed		0.8	Seed treatment only. Do not use treated seed for food or feed.
Flax		.75	Seed treatment only. Do not use treated seed for food or feed.
Millet		.33	Seed treatment only. Do not use treated seed for food or feed.
Oats		.25	Seed treatment only. Do not use treated seed for food or feed.
Rice		.25	Seed treatment only. Do not use treated seed for food or feed.
Rye		.25	Seed treatment only. Do not use treated seed for food or feed.
Safflower		1.5	Seed treatment only (dry and slurry). Do not use treated seed for food, feed, or oil.
Sorghum		.33	Seed treatment only. Do not use treated seed for food or feed.
Wheat		.33	Seed treatment only. Do not use treated seed for food or feed.
		3 pints/A.	Apply in late fall prior to snowfall.

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ETHYLENE DIBROMIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes (sweet)	50	36-108	Allow 1-3 weeks to lapse between time of application and planting.
Potatoes (white)	75	90	For use only in Idaho and Wisconsin where postharvest fumigation with methyl bromide is not practiced. Apply as a split application in the fall of 60 lbs./A. followed in 10 days by 30 lbs./A.
		36-72	Allow 1-2 weeks to lapse between time of application and planting.
Seed beds		72	Allow 1-2 weeks to lapse between time of application and planting. Direct seeded crops in irrigated areas may be planted in 6-8 days.
Soybeans		55	Allow 1-2 weeks to lapse between time of application and planting.
Spinach		36-77	Allow 1-2 weeks to lapse between time of application and planting.
Squash (summer)	50	36-108	Allow 1-3 weeks to lapse between time of application and planting.
Strawberries	5	108	Allow 1-3 weeks to lapse between time of application and planting.
Sugar beets		36-77	Allow 1-2 weeks to lapse between time of application and planting.
Tomatoes	50	36-108	Allow 1-3 weeks to lapse between time of application and planting.
Turnips		36-77	Allow 1-2 weeks to lapse between time of application and planting.
<u>Commodity Fumigation</u>	ppm as inorganic bromides (organic bromides: exempt)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHYLENE DIBROMIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beans (dry)		8.0 lbs./ 1000 bu. + other fumigants	Expose to fumigation 24 hours.
Beans (string)	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Bitter melon	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Cantaloupes	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Cavandish Bananas	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Cherries	25 ppm (total bromides)	2.0 lbs./ 1000 cu.ft.	Single application only. Expose to fumigation for 2 hours.
Citrus	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Corn	50	9.0 lbs./ 1000 bu. + other fumigants	No limitations.
Cucumbers	10	1.0 lb./ 1000 cu.ft.	Expose to fumigation for 2 hours.
Fruits & Vegetables		1.0 lb./ 1000 cu.ft.	Expose to fumigation for 12 hours.
	ppm as inorganic bromides (organic bromides: exempt)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

FERBAM*

PRINCIPAL FORMULATIONS: 76%, 80% and 98% wettable powder;
3.9%, 7.6%, 11.5% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1	12.2	Petal fall.
Apples	7	18.0	7 days.
Apricots	7	7.6	21 days.
Beans	7	3.0	Do not apply within 4 days of picking. Do not feed treated plant parts to meat or dairy animals.
Blackberries	7	5.7	40 days.
Blueberries	7	5.7	40 days.
Boysenberries	7	5.7	40 days.
Broccoli	7	1.7	Plant bed treatment only.
Cabbage	7	2.3	Plant bed treatment only.
Cantaloupe	7	0.8	No time limitations.
Carrots	7	3.0	7 days if tops are to be used for food or feed.
Celery	7	3.0	No time limitations. Remove residues by stripping, trimming, and washing.
Cherries	7	15.0	No time limitations.
Citrus	7	15.0	Prebloom and 2/3 petal fall and late summer or early fall if heavy flush of growth occurs.
Grapefruit			
Kumquats			
Lemons			
Limes			
Oranges			
Tangeloes			
Tangerines			

*Ferric dimethyl dithiocarbamate

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Replaces page issued 10-1-66

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FERBAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cranberries	7	11.4	Do not apply within 28 days after mid-bloom.
Cucumbers	7	0.8	No time limitations.
Cucurbits	7	0.8	No time limitations.
Currants	7	3.8	14 days.
Dates	7	1.9	7 days.
Dewberries	7	5.7	40 days.
Gooseberries	7	3.0	14 days.
Grapes	7	4.6	7 days.
Lettuce	7	18.4	Plant bed treatment.
		3.0	Florida only. Do not apply within 7 days of harvest. Remove residues by stripping and trimming.
Loganberries	7	3.0	Do not apply after fruit begins to form.
Nectarines	7	5.7	Immediately after bloom.
Peaches	7	7.6	21 days.
Pears	7	5.7	7 days.
Peppers	7	1.3	Plant bed treatment.
Plums	7	7.4	7 days.
Potatoes		3.0	No time limitations.
Prunes	7	7.4	7 days.
Quinces	7	5.7	7 days.
Raspberries	7	5.7	40 days.
Squash	7	0.8	No time limitations.

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Replaces page issued 2-10-65

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FERBAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Strawberries	7	3.0	14 days.
Sweet potatoes		2 lbs./100 gals. water	Dip vine cuttings before setting in field.
Tomatoes	7	7.5	No time limitations.
Turnips	7	2.0	No time limitations.
Watermelons	7	0.8	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

FERROUS SULFATE

PRINCIPAL FORMULATIONS: 100% crystals

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cranberries	Safe Chemical	lbs. actual/A. 800	Apply to crop between April and July.

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GLYODIN*

PRINCIPAL FORMULATIONS: 30% solution containing 2.1 lbs./gallon, and 50% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	5	4.2	No time limitation.
Cherries	5	3.0	7 days.
Peaches	5	3.0	No time limitation.
Pears	5	3.0	No time limitation.

*2-heptadecyl-2-imidazoline acetate

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Replaces page issued 7-1-64

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HEPTACHLOR*

PRINCIPAL FORMULATIONS: 25% wettable powder; emulsifiable concentrate containing 2 lbs. per gallon; 1.5% to 2.5% dusts; granular formulations

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	Combined hepta- chlor & hepta- chlor epoxide	lbs. actual/A.	
Barley	0	3.0	Preplanting soil application only.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans (snap)	0.1	2.5	Preplanting soil application only. Work into soil.
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Blackberries		4.0	Soil application only. Do not apply after edible parts start to form.
Blueberries		4.0	Soil application only. Do not apply after edible parts start to form.
Boysenberries		4.0	Soil application only. Do not apply after edible parts start to form.
Cabbage	0.1	0.25	Soil application to furrow at time of planting or transplanting.
		0.015% in water	Transplant water. Drench soil around plants.
		1.0 (dust)	Apply to soil around plants immediately after transplanting.
		0.5% (in water)	Dip roots and stems of plants prior to transplanting.
		2.5% (dust)	Apply to roots and stems of plants prior to transplanting.
Cherries	0	3.0	Soil application only. Apply during late spring or early summer.

*3a,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene

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HEPTACHLOR

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	Combined hepta- chlor & hepta- chlor epoxide	lbs. actual/A.	
Rye (seed)		2.0 oz./bu.	Do not use as food or feed.
Sorghum (seed)		2.0 oz./bu.	Do not use as food or feed.
Soybeans		3.0	Preplanting soil application (or at time of planting). Do not contaminate food or feedstuffs.
Soybeans (seed)		2.0 oz./bu.	Do not use as food or feed.
Sugar cane		3.0	Apply to seed pieces in furrow at time of planting.
Tomatoes	0	3.0	Soil application only. Do not apply after edible parts start to form.
Wheat	0	3.0	Preplanting soil application only.
Wheat (seed)		2.0 oz./bu.	Do not use as food or feed.

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2-HEPTADECYL IMIDAZOLINE*

PRINCIPAL FORMULATIONS: 70% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	5	3.5	No time limitation.
Cherries (sour)	5	4.4	7 days.
Pears	5	2.3	No time limitations.

*Proprietary Name: Glyoxide

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LIME SULFUR

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Plums	Safe Chemical	1.5 gals./100 gals. water	No time limitations.
Prunes	Safe Chemical	1.5 gals./100 gals. water	No time limitations.
Quinces	Safe Chemical	1.5 gals./100 gals. water	No time limitations.
Raspberries	Safe Chemical	12 gals./100 gals. water.	Delayed dormant application only.
Animals:			
Cattle	Safe Chemical	2.5%	No time limitations.
Goats		(in water)	
Poultry			No time limitations.
Sheep		2.0%	
Swine		(dust)	

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE*

PRINCIPAL FORMULATIONS: 1% to 3% dusts; 25% wettable powder; emulsifiable concentrate containing 1.6 lbs. per gallon; 100% crystals; 2.3% solid in smoke generator

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa		lbs. actual/A.	
		1.25	Soil application during early season or immediately after cutting. Do not apply after new growth is 4 inches tall.
		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		0.2	Do not apply within 30 days of harvest or grazing. Do not apply after crop is 6 inches tall.
Apples	10	3.6	60 days.
Apricots	10	1.5	60 days. Apply to trunk and lower branches from crotch to ground.
Asparagus	10	0.6	Post-harvest application only.
Avocado	10	3.6	Apply only before blossoming or immediately after fruit has set.
Barley Seed	10	2.0 oz./bu.	Do not use as food or feed.
Beans		0.6	Do not apply after edible parts start to form.
Beans Seed		2.0 oz./bu.	Do not use as food or feed.
Blueberries		0.5	Do not apply after fruit starts to form.

*Gamma isomer of 1,2,3,4,5,6-hexachlorocyclohexane

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Broccoli	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Brussels Sprouts	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Cabbage	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Cantaloupes		0.5	No time limitations.
Cauliflower	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Celery	10	0.4	Do not apply after plants are half grown or begin to bunch.
Cherries	10	1.0	Do not apply to foliage or fruit after fruit starts to form. Can be applied to trunk and larger branches after fruit forms.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Citrus Fruits:			
Grapefruit	10	2.0	30 days.
Kumquat	10		
Lemons	10		
Limes	10		
Oranges	10		
Tangeloes	10		
Tangerines	10		
Clover		0.2	Do not apply within 30 days of harvest or grazing. Do not apply when crop is more than 6 inches tall.
		1.25	Soil application during early season or immediately after cutting. Do not apply after new growth is 4 inches tall.
		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Collards	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Corn	10	5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		1.25	Preplanting soil application.
Corn			
Seed		2.0 oz./bu.	Do not use as food or feed.
Cotton		5.0	Do not graze treated fields by meat or dairy animals.
Cotton			
Seed		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cowpeas		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		1.25	Preplanting soil application.
Cowpeas			
Seed		2.0 oz./bu.	Do not use as food or feed.
Cranberries		0.6	Do not apply after blossoms open.
Cucumbers	10	0.75	Do not apply after blossoms open.
		0.5	1 day.
Cucumbers			
(Greenhouse)	10	4.0	Apply as a soil drench in greenhouses. Saturate soil around the base of young plants.
		1 gram/1000 cu. ft. of space	Do not apply within 1 day of harvest.
Currants		0.5	Do not apply after edible parts start to form.
Eggplants	10	0.5	Do not apply after edible parts start to form.
Field, Forage, Fiber & Grain Crops (non-root crops):			
Alfalfa		1.0	Preplanting soil application or at time of planting. Do not apply to land to be planted in root crops.
Barley			
Birdsfoot			
Trefoil			
Buckwheat			
Clover			
Corn	10		
Cotton			
Flax			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Field, Forage, Fiber & Grain Crops (nonroot crops): (cont.)		lbs. actual/A.	
Grasses		1.0	Preplanting soil application or at time of planting. Do not apply to land to be planted to root crops.
Hops			
Lespedeza			
Millet			
Milo			
Oats			
Pasture Grass			
Popcorn			
Rice			
Rye			
Safflower			
Sorghum			
Soybeans			
Sugarcane			
Vetch			
Wheat			
Flax (seed)		2.0 oz./cwt.	Do not use treated seed for food or feed.
Gooseberries		0.5	Do not apply after fruit starts to form.
Grapes	10	1.0	Do not apply later than one month after bloom.
Grass: Pasture Range		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Guava	10	3.6	Apply just before blossoming or just after fruit is set.
Kale	10	0.75	Do not apply after edible parts start to form.
		1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Kohlrabi	10	0.75	Do not apply after edible parts start to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Kohlrabi (cont.)	10	1.0	Apply to soil around base of plants. Do not apply after edible parts start to form.
Lemons (in storage)	10	0.25 lbs./ 100,000 cu. ft.	Postharvest application. Vaporize 1.0 oz./2.5 minutes into air intake fan of standard ventilation system. Keep vents closed and water sprayers off for 2 hours following vaporization. Do not treat more than once every 2 weeks. Do not treat any lot more than 6 times.
Lespedeza		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		1.25	Preplanting soil application.
Lettuce	10	0.75	Do not apply to leaf lettuce after seedling stage. Do not apply to head lettuce after heads start to form.
		1.0	Apply to soil around base of plants. Do not apply to leaf lettuce after seedling stage. Do not apply to head lettuce after heads start to form.
		3.0	Preplanting soil application or at time of planting or transplanting.
Lettuce (Leaf) (Greenhouse)	10	1 gram/1000 cu. ft. of space	Do not apply within 5 days of harvest.
Lima beans	10	0.6	Do not apply after pods start to form.
Lima beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Mango	10	3.6	Apply just before blossoming or just after fruit is set.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Melons	10	0.75	Do not apply after blossoms open.
		0.5	No time limitations.
Milo			
Seed		2.0 oz./bu.	Do not use as food or feed.
Mushrooms and Mushroom Houses	10	6.0 gms./ 16,000 sq. ft.	Dust. 7 days.
Mustard	10	0.75	Do not apply after seedling stage.
		1.0	Apply to soil around the base of plants. Do not apply after seedling stage.
Nectarines	10	2.0	60 days.
Oats		0.6	Do not apply after heads start to form.
Oats			
Seed		2.0 oz./bu.	Do not use as food or feed.
Okra	10	0.75	Do not apply after edible parts start to form.
Onions	10	1.0	Do not apply to green or spring onions.
		0.4	No time limitations.
Peaches	10	1.0	60 days.
		1.5	60 days. Apply to trunk and large branches from crotch to ground.
Pears	10	3.6	60 days.
Peas	10	0.3	Do not apply after pods start to form.
Peas			
Seed		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pecans		3.75	Do not apply after shuck-split.
Peppers	10	0.6	Do not apply after edible pods start to form.
Pineapples	10	5.0	Preplanting soil application to furrow or broadcast. or Post-planting broadcast soil application. Do not apply after "red bud" stage.
Plums	10	2.0	60 days.
		1.5	60 days. Apply to trunk and large branches from crotch to ground.
Prunes	10	2.0	60 days.
		1.5	60 days. Apply to trunk and large branches from crotch to ground.
Pumpkins	10	0.5	No time limitations.
Quince	10	3.6	60 days.
Rye		0.6	Do not apply after heads start to form.
Rye			
Seed		2.0 oz./bu.	Do not use as food or feed.
Sorghum		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		1.25	Preplanting soil application.
Sorghum			
Seed		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Soybeans		5.0	Do not feed treated forage to dairy animals or animals being finished for slaughter.
		1.25	Preplanting soil application.
Soybeans			
Seed		2.0 oz./bu.	Do not use as food or feed.
Spinach	10	0.75	Do not apply after seedling stage.
		1.0	Apply to soil around base of plants. Do not apply after seedling stage.
Squash	10	0.75	Do not apply after blossoms open.
		0.5	1 day.
Strawberries	10	0.15	Do not apply after fruit starts to form.
		2.0	Preplanting soil application or at time of planting.
Sugar beets		0.5	Do not feed treated tops to dairy animals or animals being finished for slaughter.
Sunflower seed		2 oz. actual/bu.	Do not use for feed, food or oil purposes.
Sweet potatoes		0.5	Transplant water application at time of transplanting.
Swiss chard	10	0.75	Do not apply after seedling stage.
		1.0	Apply to soil around base of plants. Do not apply after seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes	10	lbs. actual/A. 0.75	Do not apply after fruit starts to form.
Tomatoes (Greenhouse)	10	4.0 1 gram/1000 cu. ft. of space	Apply as a soil drench in greenhouses. Saturate soil around the base of young plants. Do not apply within 1 day of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Vegetables (Non-root crops):			
Asparagus	10	0.25	Transplant water application at time of transplanting.
Beans	10		
Blackeyed Peas	10		Preplanting soil application or at time of planting. Do not apply to land to be planted in root crops.
Broccoli	10	2.0	
Brussels Sprouts	10		
Cabbage	10		
Cantaloupes			
Cauliflower	10		
Celery	10		
Collards	10		
Corn	10		
Cowpeas	10		
Cucumbers	10		
Eggplants	10		
Endive			
Kale	10		
Kohlrabi	10		
Lettuce	10		
Melons			
Mustard Greens	10		
Okra	10		
Peas	10		
Peppers	10		
Pimentos			
Pumpkins	10		
Spinach	10		
Squash (summer)	10		
Squash (winter)			
Swiss Chard	10		
Tomatoes	10		
Watermelons			
Walnuts		1.5	Do not apply after nuts are 1/2 inch in diameter.
Wheat		0.6	Do not apply after heads start to form.
Wheat			
Seed		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals:		concentration in %	
Beef Cattle	7 in fat	0.03-0.06	Dip or spray. Do not dip animals within 60 days of slaughter. Do not spray within 30 days of slaughter. Treat calves only at the 0.03% level. Do not dip calves under 3 months of age.
		0.012 in water	Dip or spray. Do not apply to dairy animals. Do not apply to meat animals within 30 days of slaughter.
		3.0	Formulated with other ingredients. Apply as a spot treatment for screw-worm control.
		3.5	Formulated with other ingredients as an aerosol. Apply to ears of animal for tick control.
		1.0 (dust)	Do not apply within 30 days of slaughter.
		0.2 in oil	Formulated with certain other ingredients and applied by back-rubbers. Do not apply within 30 days of slaughter. Do not apply to dairy animals or animals under 6 months of age.
Cattle (all)	7 in fat	0.075 in water	For use under veterinary supervision in connection with official quarantine treatments.
Dairy Cattle		0.06 in water	Dip or spray. For use against sarcoptic mange only. Do not treat calves under 3 months of age. Make no more than 2 applications in any one calendar year. Use on dry dairy animals but not within 10 days of freshening. Since this treatment results in milk contamination if lactating dairy animals are treated, waste milk for at least 10 days following treatment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Dairy Cattle (cont.)		concentration in %	
		1.0 (dust)	For use against sarcoptic mange only. Do not treat calves under 3 months of age. Do not apply more than twice per year. Use on dry dairy animals but not within 10 days of freshening. Since this treatment results in milk contamination if lactating animals are treated--waste milk for at least 10 days following treatment.
		3.0	Formulated with other ingredients. Apply as a spot treatment for screw-worm control.
		3.5	Formulated with other ingredients in liquid and pressurized dispensers. Apply to ears of animal for tick control.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Hogs	4 in fat	concentration in % 0.03 to 0.06 in water 1.0 (dust) 3.0	Do not spray within 30 days of slaughter, or dip within 60 days of slaughter. Do not treat within 30 days of slaughter. Formulated with other ingredients. Apply as a spot treatment for screw-worm control.
Goats Sheep	7 in fat	0.2 in oil 0.06 in water 1.0 (dust) 3.0	Formulated with certain other ingredients, and applied by hog oilers or back rubbers. Do not expose animals under 6 months of age. Do not expose animals within 30 days of slaughter. Do not spray within 30 days of slaughter. Do not dip within 60 days of slaughter. Do not use on dairy goats. Do not apply within 30 days of slaughter. Do not use on dairy goats. Formulated with other ingredients. Apply as a spot treatment for screw-worm control.
Agricultural Premises: Barns Dairy Barns Milk Rooms Feed Rooms Grain Etc.		36 mgs./ sq. ft. 1.25% in water	Dust or spray. Surface application. Do not contaminate milk, or milking equipment, feed, or drinking water. Apply with a brush or sprayer as a spot treatment. Do not contaminate milk, milking equipment, feed or drinking water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINDANE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: (Cont.)		lbs. actual/A.	
Barns		53 mgs./ sq. ft.	Bait or spray. Apply to floors, walks, gutters, etc. Do not contaminate milk, milking equipment, feed, or drinking water.
Dairy Barns			
Milk Rooms			
Feed Rooms			
Grain Bins			
Etc.		0.1% in oil or water	Formulated with other ingredients. Apply as a space spray. Do not contaminate milk, milking equipment, feed, or drink- ing water.
General:			
Outdoors		0.5 in oil or water	Apply as fog or mist for control of flying insects.
		1.0	Dust or spray. Apply thoroughly for control of ticks and chiggers. Do not contaminate food crops.
Uncultivated Land		0.5	Bait, dust, or spray. Do not contam- inate food crops.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION*

PRINCIPAL FORMULATIONS: Emulsifiable concentrate containing 5 lbs. per gallon; 25% wettable powder; 4% and 5% dusts; 95% L.V. concentrate; 3% oil solution

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	135	1.5	No time limitations. Apply as dust or diluted spray.
		2.0	7 days. Apply as diluted spray.
		2.5	7 days. Apply as dust.
		0.6	No time limitations. Apply as undiluted (ultra low volume) sprays.
Almonds		8.0	No time limitations.
Anise	8	1.5	7 days. Apply only to crops to be harvested fresh. Do not apply to crops grown for seed or oil.
Apples	8	15.0	3 days. May injure foliage on some varieties.
Apricots	8	10.0	7 days. Full coverage spray.
Artichokes		3.0	10 days.
Asparagus	8	1.25	1 day.
Avocado	8	9.0	7 days.
Barley	8	1.25	7 days. Apply as dust formulation or diluted spray.
		0.6	7 days. Apply as undiluted (ultra low volume) sprays.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans	8	1.75	1 day. Apply as dust or dilute spray.
		0.6	1 day. Apply as undiluted (ultra low volume) sprays.

*O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Beets	8	2.5	7 days.
Blackberries	8	4.0	1 day.
Blackeyed peas	8	2.5	3 days.
Blackeyed peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Blueberries	8	2.5	1 day. Apply as dust or diluted spray.
		0.75	No time limitations. Apply as diluted sprays or undiluted (ultra low volume) sprays.
		1.0	No time limitations. Apply as dust.
Boysenberries	8	4.0	1 day.
Broccoli	8	3.0 (dust) 2.5 (spray)	3 days.
Brussels sprouts	8	2.5	7 days.
Cabbage	8	3.0 (dust) 2.5 (spray)	7 days.
Carrots	8	2.0	7 days.
Cauliflower	8	3.0 (dust) 2.5 (spray)	7 days.
Celery	8	1.5	7 days.
Cherries	8	8.0	3 days. May injury foliage of some varieties.
Chestnuts		5.0	Do not apply after shuck-split.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Clover	135	1.5	No time limitations. Apply as dust or diluted spray.
		2.0	7 days. Apply as diluted spray.
		2.5	7 days. Apply as dust.
		0.6	No time limitations. Apply as undiluted (ultra low volume) sprays.
Collards	8	2.5	7 days.
Corn	8	1.6	5 days. (Grain or forage use).
Field	(forage)	(dust)	
Pop	2		
Sweet	(ear with husk removed)	1.0	5 days. (Grain or forage use).
		(spray)	
		0.6	5 days. (Grain or forage use). Apply as undiluted (ultra low volume) sprays.
Corn (stored)	8	10.0 oz./1000 bu. mixed with grain	Postharvest treatment only.
		5.0 oz./1000 sq. ft. of grain surface	Postharvest treatment only.
Corn (seed)		2.0 oz./bu.	Do not use as food or feed.
Cotton	2 (cotton-seed)	4.0	No time limitations. Apply as dust formulations or diluted sprays.
		1.2 (16 fl.oz. of 95% conc./A.)	No limitations. Apply as undiluted (ultra low volume) sprays.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cowpeas	8	2.5	3 days.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	8	2.5	3 days.
Cucumbers	8	2.25 (dust) 1.75 (spray)	1 day.
Cucumbers (greenhouse)	8	0.1 lb./50,000 cu.ft.	1 day. Greenhouse aerosol formulation.
Currants	8	2.0	1 day.
Dandelion	8	2.5	7 days.
Dates	8	2.0	7 days.
Dewberries	8	4.0	1 day.
Eggplant	8	3.5	3 days.
Endive (escarole)	8	2.0	7 days.
Endive (greenhouse)	8	0.1 lb./50,000 cu.ft.	7 days. Greenhouse aerosol.
Figs	8	2.5 (spray)	3 days. Formulated with 2 gallons of molasses as a bait spray.
		2.0 (dust)	3 days.
Filberts		3.0	No time limitations.
Garlic	8	2.0	3 days.
Gooseberries	8	2.0	3 days.
Grapefruit	8	25.0	7 days. Do not apply during full bloom.
		0.75	3 days. Bait sprays.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Vegetables (cont.)			
Cauliflower	8	3.0 (dust)	Apply uniformly over soil around base of plants. (Worked into soil or left on surface).
Celery	8		
Collards	8		
Corn	8		
Cowpeas	8		
Hay			
Peas			
Vines			
Cucumbers	8		
Eggplants	8		
Endive	8		
Garlic	8		
Horseradish	8		
Kale	8		
Kohlrabi	8		
Leeks	8		
Lettuce	8		
Melons	8		
Mustard greens	8		
Okra			
Onions	8		
Parsnips	8		
Peas	8		
Hay			
Peas			
Vines			
Peppers	8		
Pimentoses	8		
Potatoes	8		
Pumpkins	8		
Radishes	8		
Rutabagas	8		
Salsify	8		
Shallots	8		
Spinach	8		
Squash (summer)	8		
Squash (winter)	8		
Sweet potatoes			
Swiss chard	8		
Tomatoes	8		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables (cont.)		lbs. actual/A.	
Turnips	8	3.0 (dust)	Apply uniformly over soil around base of plants. (Worked into soil or left on surface).
Roots			
Tops			
Watermelons	8		
Vetch		2.0	7 days (harvest or pasturing).
Walnuts	8	12.5	No time limitations.
Water Cress	8	2.0	7 days.
Water Cress (greenhouse)		0.1 lb./ 50,000 cu. ft.	7 days. Greenhouse aerosol.
Wheat	8	1.25	7 days. Apply as dust formulations or diluted sprays.
		0.6	7 days. Apply as undiluted (ultra low volume) sprays.
Wheat (seed)		2.0 oz./bu.	Do not use as food or feed.
Animals:			
Beef cattle	4 in meat & meat by- products	1.25% (in water)	Dip or spray. Do not apply to lactating dairy animals.
		2.0% (in oil)	Apply by back-rubbers. Do not apply to dairy animals.
		5.0% (dust)	Apply directly to animals. Do not apply to lactating dairy animals.
Dairy cattle (non- lactating)	0 in milk	1.25% (in water)	Dip or spray. Do not spray during lactation or within two weeks of freshening. Do not dip within 2 months of freshening. Do not apply to calves under one month of age.
		5.0% (dust)	Thorough application. Do not apply during lactation or within 2 weeks of freshening.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Dairy cattle (lactating)	0 in milk	lbs. actual/A. 5.0% (dust) 1.5 oz./head or 4.0% (dust) 2.0 oz./head	Apply to back and neck of animals. Do not apply within 5 hours of milking or during milking. Repeat application at 10-14 day intervals if needed.
Poultry	4 in meat & meat by- products 0 in eggs	0.7% (in water) 4.0% (dust)	Spray or dip. No time limitations. Thorough application directly to birds. No time limitations.
Goats Sheep	4 in meat & meat by- products	0.6% (in water) 5.0% (dust)	Dip or spray. No limitation. Do not apply to milk goats. Thorough application to animal by hand or power duster. Do not apply to lactating milk goats.
Swine	4 in meat & meat by- products	0.6% (in water) 0.5% (in oil) 5.0% (dust)	Dip or spray. No time limitations. Apply by rubbing devices. Thorough application. No time limitations.
Agricultural Premises including:			
Barns Dairy Barns Barnyards Milk rooms		2.5% (in water) 1.0%	Apply liberally as a residual spray. Do not contaminate milk, milking equipment, feed, or drinking water. Bait spray. Spot application by spraying, or brushing. Do not contaminate milk, milking equipment, feed, or drinking water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MALATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises (cont.)	4 (in meat & meat by products)	lbs. actual/A.	
		1.25%	Wet bait formulation. Do not contaminate feed, milk, milking equipment, or drinking water.
		3.5%	Dry bait formulation. Apply 34 gms. per 1000 sq. ft. of floor space. Do not contaminate milk, milking equipment, feed, or drinking water.
Feed Lots & Holding Pens for Beef Cattle		0.6	Apply by aircraft as undiluted (ultra low volume) sprays. May be applied with beef cattle present. No time limitations.
Poultry Houses		0.25 lbs./ 100 sq. ft.	Dust or spray. Apply to litter, floor, and walls.
		4.0%	Roost paint or surface spray. Apply one pint per 150 feet of roost.
Poultry Ranges		1.1	Full-coverage application 1 day prior to placing poultry on range. Repeat every 2-3 weeks. Do not contaminate feed or drinking water.
Grain Bins Feed Rooms Etc.		3%	Apply liberally as a residual spray. Do not contaminate feed.
Greenhouse		0.15 lbs. 50,000 cu.ft.	Greenhouse aerosol formulation.
General:			
Ant Mounds		0.1%	Apply liberally to mounds. Saturate and mix loose earth in top of mound.
Fogging		1.5%	Formulated in combination with other insecticides. Apply by fog generators.
Uncultivated Land		2.0	Apply to ditchbanks, wasteland, idle land, etc. for grasshopper control.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MANEB*

PRINCIPAL FORMULATIONS: 37% liquid; 70% and 80% wettable powder;
3.5%, 5.6%, 6.0%, 7.0%, and 8.0% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1	7.5	Use restricted to California. Do not apply later than 5 weeks after petal fall. If applied beyond petal fall, do not feed almond hulls to dairy animals or animals being finished for slaughter.
Apples	7	8.4	No time limitations.
Apricots	10	10.0	14 days.
Asparagus		2.4	Postharvest application only or apply to young plantings which will not be harvested.
Bananas	15 (on peel) 2 (in pulp)	4.0 0.46% (in water) 0.375% (in water)	No time limitations. Postharvest dip. No time limitations. Postharvest spray. No time limitations.
Beans, dry	7	3.2	No time limitations.
Beans, succulent	10	3.2	4 days.
Blackberries		3.2	Do not apply after bloom.
Broccoli	10	3.2 (spray) 4.0 (dust)	Remove residues by washing or trimming if application is made within 3 days of harvest.
Brussels sprouts	10	2.8	No time limitations.
Cabbage	10	2.0 (spray) 2.6 (dust)	7 days.
Carrots	7	3.0	No time limitations.
Cauliflower	10	2.8	No time limitations.

*Manganous ethylene bisdithiocarbamate
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USDA Summary of Registered Agricultural Pesticide Chemical Uses

MANEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Celery	10	lbs. actual/A. 3.2 (spray) 2.8 (dust)	No time limitations. Remove excess residues by stripping, trimming and washing.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MANEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peanuts		1.6	No time limitations. Do not feed treated peanut hay to livestock.
Peppers	7	3.0	No time limitations.
Plums		8.0	Petal fall.
Potatoes	0.1	4.0	No time limitations.
Potatoes (seed pieces)		1.0 lb./10 gals. of water	Dip seed pieces or whole tubers.
Prunes		8.0	Petal fall.
Pumpkins	7	2.4	No time limitations.
Raspberries		3.2	Do not apply after bloom.
Rhubarb (greenhouse)	10	2 lbs. 70% w.p. per 100 gals.	No time limitations.
Spinach	10	2.75	7 days. Remove excess residues by washing.
Squash (summer & winter)	7	4.0	No time limitations.
Sugar beets	45 (tops)	2.6	Foliage application. Do not apply within 10 days of harvest. Do not feed treated tops to livestock.
		1.6	Do not apply within 14 days of harvest. No restriction on feeding tops.
Sweet corn	7 (kernel & cob)	2.4	No time limitations. Do not feed treated forage to livestock.
Tomatoes (field)	7	4.0	No time limitations.
Tomatoes (greenhouse)	7	4.0	To avoid damage, do not use on tender young plants.
Watermelons	7	4.0	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MANGANOUS DIMETHYLDITHIOCARBAMATE PLUS MERCAPTOBENZOTHIAZOLE

PRINCIPAL FORMULATIONS: Various proprietary wettable powder and dust formulations* with one or more of the following fungicides: dichlone, ferbam, thiram, zineb

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	7.0 as man- ganous diethyl- dithio- carbamate	2.0 lbs./ 100 gals. water (spray)	No time limitations.
	0.1 mercap- tobenzo- thiazole	50 lbs./A. or 2 lbs./ tree (dust)	No time limitations.
Pears		Mixture used at 1.5 lbs./100 gals. water	Do not apply after petal fall. North- western states only.

*Proprietary name for entire range of formulations: "Niacide"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METALDEHYDE

PRINCIPAL FORMULATIONS: 1.10% in bait mixture with other insecticides;
3% pellets in bait mixture with other insecticide;
5.5% and 10% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Orchard:		1.5 lbs. actual/A.	Broadcast under trees. Do not apply to tree foliage or edible parts.
Avocado			
Citrus			
Strawberries		4.0 lbs. act./A.	Do not apply within 6 days of harvesting strawberries.
Vegetables:			
Asparagus		10.0%	Apply a uniform cover of dust or spray
Beans		(dust or spray)	to foliage and soil around plants. Apply
Beets			only to young seedlings or nonfood crops.
Blackeyed Peas			
Broccoli		5.5%	Apply to soil around plants. Do not
Brussels		(dust)	apply to foliage.
Sprouts			
Cabbage		0.5 lbs./1000	Bait formulations. Apply to soil surface
Cantaloupes		sq. ft.	around plants. Do not contaminate edible
Carrots			parts.
Cauliflower			
Celery			
Collards			
Corn			
Cowpeas			
Cucumbers			
Eggplants			
Endive			
Garlic			
Horseradish			
Kale			
Kohlrabi			
Leeks			
Lettuce			
Melons			
Mustard Greens			
Okra			
Onions			
Parsnips			
Peas			
Peppers			
Pimentos			
Potatoes			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METALDEHYDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (Cont.)			
Pumpkins		10.0%	Apply a uniform cover of dust or spray
Radishes		(dust or spray)	to foliage and soil around plants.
Rutabagas			Apply only to young seedlings or non-
Salsify			food crops.
Shallots			
Spinach		5.5%	Apply to soil around plants. Do not
Squash		(dust)	apply to foliage.
(Summer)			
Squash		0.5 lbs./1000	Bait formulations. Apply to soil surface
(Winter)		sq. ft.	around plants. Do not contaminate edible
Sweet Potatoes			parts.
Swiss Chard			
Tomatoes			
Turnips			
Watermelons			
Vegetables (Greenhouse):			
Cucumbers		5.5%	Apply to soil around plants. Do not
Lettuce		(dust)	apply to foliage.
Radishes			
Tomatoes		0.5 lbs./1000	Bait formulations. Apply to soil surface
		sq. ft.	around plants. Do not contaminate edible
			parts.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2-METHOXY-3,6-DICHLOROBENZOIC ACID

PRINCIPAL FORMULATIONS: 49% & 57% liquid (dimethylamine salt)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Barley (fall seeded)		lbs. acid equiv. per acid 0.25	Postemergence application in spring before joint stage. Do not graze or feed forage or threshings to livestock.
(spring seeded)		0.094	Postemergence application during 2-5 leaf stage. North Dakota and Montana only. Do not graze or feed forage to dairy animals before harvest. Do not graze other livestock for 30 days after treatment.
Corn (field)		1.0	Preemergence application before weeds emerge. Do not graze treated areas. Do not harvest for dairy animal feed prior to ensilage (milk stage). Do not apply to sandy soils low in organic matter.
		0.25	Postemergence application as an overall spray before corn is 36 inches high. Do not graze treated areas. Do not harvest for dairy animal feed prior to ensilage (milk stage).
Oats (fall seeded)		0.25	Postemergence application in spring before joint stage. Do not graze or feed forage or threshings to livestock.
(spring seeded)		0.125	Postemergence application during 2-5 leaf stage. Do not graze or feed forage or threshings to livestock.
Wheat (fall seeded)		0.25	Postemergence application in spring before joint stage. Do not graze or feed forage or threshings to livestock.

Proprietary name: "Dicamba"

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Replaces page issued 10-1-66

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2-METHOXY-3,6-DICHLOROBENZOIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Wheat (cont.) (spring seeded)		lbs. acid equiv. per acre 0.25	Postemergence application during 2-5 leaf stage. Do not graze or feed forage or threshings to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHOXY ETHYL MERCURY ACETATE

PRINCIPAL FORMULATIONS: 4.88% and 11.4% liquids; 23.85% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		oz. metallic mercury equiva- lent/100 lbs.	
Barley		0.042	Slurry seed treatment.
		0.055	Automatic machine seed treatment. Do not use treated seed for food, feed, or oil.
Cotton			
Fuzzy		0.143	Slurry seed treatment.
		0.207	Automatic machine seed treatment. Do not use treated cotton seed for food, feed, or oil purposes.
Reginned		0.116	Slurry seed treatment.
		0.186	Automatic machine seed treatment. Do not use treated cotton seed for food, feed, or oil purposes.
Acid delinted		0.101	Slurry seed treatment.
		0.186	Automatic machine seed treatment. Do not use treated cotton seed for food, feed, or oil purposes.
Flax		0.104	Slurry seed treatment.
		0.110	Automatic machine seed treatment. Do not use treated seed for food, feed, or oil purposes.
Oats		0.057	Slurry seed treatment.
		0.088	Automatic machine seed treatment. Do not use treated seed for food, or feed purposes.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHOXY ETHYL MERCURY ACETATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		oz. metallic mercury equivalent/100 lbs.	
Rice		0.042	Slurry seed treatment.
		0.059	Automatic machine seed treatment. Do not use treated seed for food or feed purposes.
Sorghum		0.038	Slurry seed treatment.
		0.047	Automatic machine seed treatment. Do not use treated seed for food or feed.
Wheat		0.033	Slurry seed treatment.
		0.044	Automatic machine seed treatment. Do not use treated seed for food or feed or oil purposes.

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METHYL BROMIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	(as inorganic bromides)	lbs./1000 cu.ft. unless otherwise indicated	
Popcorn	240	1.5	Chamber fumigation. Aerate for 24 hours after fumigation. Do not fumigate more than six times unless residue analyses show that additional fumigation will not exceed the residue tolerances established.
Potatoes	75	3.0	Expose to fumigation for six hours.
Pumpkins	20	2.5	Expose to fumigation for two hours.
Radishes	30	3.0	Expose to fumigation for four hours.
Rice	50	3.0	Expose to fumigation for 24 hours. Do not fumigate if (1) grain moisture is high, (2) grain temperature is low (below 60°F.), or (3) there is excessive dockage.
Rutabagas	30	3.0	Expose to fumigation for six hours.
Rye	50	3.0	Expose to fumigation for 24 hours. Do not fumigate if (1) grain moisture is high, (2) grain temperature is low (below 60°F.), or (3) there is excessive dockage.
Salsify (roots)	30	3.0	Expose to fumigation for four hours.
Sorghum	50	4.0	Expose to fumigation for 24 hours. Do not fumigate if (1) grain moisture is high, (2) grain temperature is low (below 60°F.), or (3) there is excessive dockage.
Spices		3.0	Expose to fumigation for 12 hours.
Squash		4.0	Expose to fumigation for two hours.
Stone Fruits:			
Apricots	20	5.0	Expose to fumigation for two hours.
Cherries	20		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL BROMIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	(as inorganic bromides)	lbs./1000 cu.ft. unless otherwise indicated	
Stone Fruits (cont.)			
Nectarines	20	5.0	Expose to fumigation for two hours.
Peaches	20		
Plums	20		
Prunes	20		
Strawberries	30 (from pre- harvest fumiga- tion)	2.5 lbs./actual 1000 sq. ft.	Field treatment of plants under tar- paulins. Expose to fumigation for 1.75 to 2.75 hours, depending on temperature.
	25 (from soil fumiga- tion)	109 lbs./actual acre	Apply as vaporized gas during dormant season following second or succeeding crop years. Use only on Shasta or Lassen varieties.
		240 lbs./actual acre	Soil application. Expose for 48 hours. Aerate two weeks before setting trans- plants in treated areas.
Sugar beets	30	3.0	Expose to fumigation for four hours.
Sweet corn	50	3.0	Expose to fumigation for four hours.
Sweet potatoes	75	3.5	Expose to fumigation for four hours.
Tomatoes	20	3.0	Expose to fumigation for four hours.
		240 lbs./actual acre	Soil application. Expose for 48 hours. Aerate two weeks before setting trans- plants in treated areas.
Tropical fruits		2.0	Expose to fumigation for four hours.
Turnips	30	3.0	Expose to fumigation for four hours.
Walnuts	200	3.5	Expose to fumigation for 24 hours.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL MERCURY BENZOATE

PRINCIPAL FORMULATIONS: 2.5% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		fl.oz. actual per bushel	
Barley		0.0125	Seed treatment. Do not use treated seed for food, feed, or oil.
Oats		0.0125	Seed treatment. Do not use treated seed for food, feed, or oil.
Sorghum		0.0125	Seed treatment. Do not use treated seed for food, feed, or oil.
Wheat		0.0125	Seed treatment. Do not use treated seed for food, feed, or oil.

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**METHYL MERCURY 2,3-DIHYDROXY PROPYL MERCAPTIDE (I)
PLUS METHYL MERCURY ACETATE (II)**

PRINCIPAL FORMULATIONS: 2.89% of (I) + 0.62% of (II)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		of formulation	
Barley		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Cotton Acid delinted		2.0 oz./100 lb.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Fuzzy		4.5 oz./100 lb.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Reginned		3.0 oz./100 lb.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Flax		1.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Millet		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Oats		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Rice		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Rye		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Safflower		1.5 oz./100 lb.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Sorghum		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Sugarcane		2 pts./100 gals.	Spray or cold dip. Seed piece treatment only.
		0.5 pt./100 gals.	Dip at 50°C. Seed piece treatment only.
Wheat		0.5 oz./bu.	Seed treatment. Do not use treated seed for food, feed or oil purposes.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL MERCURY HYDROXIDE

PRINCIPAL FORMULATIONS: 1.7%* and 4.9%** liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		fl. oz. formu- lation	
Barley		0.75/bu.*	Seed treatment only. Do not use treated seed for food, feed or oil.
Cotton		2.00/100 lb.*	Seed treatment only. Do not use treated seed for food, feed or oil.
acid delinted		0.75/100 lb.**	
fuzzy		4.50/100 lb.*	Seed treatment only. Do not use treated seed for food, feed, or oil.
		1.50/100 lb.**	
reginned		3.00/100 lb.*	Seed treatment only. Do not use treated seed for food, feed or oil.
		1.00/100 lb.**	
Flax		1.5/bu.*	Seed treatment only. Do not use treated seed for food, feed, or oil.
		0.5/bu.**	
Oats		0.75/bu.*	Seed treatment only. Do not use treated seed for food, feed, or oil.
		0.25/bu.**	
Rice		0.50/bu.*	Seed treatment only. Do not use treated seed for food, feed, or oil.
		0.17/bu.**	
Rye		0.75/bu.*	Seed treatment only. Do not use treated seed for food, feed, or oil.
		0.25/bu.**	
Sorghum		0.75/bu.*	Seed treatment only. Do not use treated seed for food, feed or oil.
Sugar beets (segmented)		4.00/100 lb.*	Seed treatment only. Do not use treated seed for food, feed or oil.
		1.38/100 lb.**	
Wheat		0.75/bu.*	Seed treatment only. Do not use treated seed for food, feed or oil.
		0.25/bu.**	

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METHYL MERCURY-8-HYDROXYQUINOLINATE

PRINCIPAL FORMULATIONS: 2.25%, 2.7%, 2.4%, 7.5%, 10.2% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		oz. actual	
Apples		8 oz./A.	Petal fall.
Barley		0.02/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Cottonseed			
Acid delinted		0.08/100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Reginned		0.08/100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Flax		0.06/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Milo		0.017/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Oats		0.02/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Peanuts (Shelled)		0.045/100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Rice		0.02/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Safflower		0.04/100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Sorghum		0.017/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Wheat		0.02/bu.	Seed treatment. Do not use treated seed for food, feed, or oil.

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METHYL PARATHION*

PRINCIPAL FORMULATIONS: 44.4% emulsifiable concentrate; emulsifiable concentrates containing two pounds and three pounds per gallon; 1% and 2.5% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		1.0	15 days.
		1.25	20 days.
Apples	1	6.0	14 days.
Apricots	1	2.5	14 days.
Artichokes	1	1.0	7 days.
Barley		0.75	15 days.
		0.25	No time limitations.
Beans (dry)	1	1.5	15 days.
Beans (green)	1	1.5	21 days.
Beets	1	1.0	15 days. (21 days if tops are to be used as food).
Broccoli	1	1.5	21 days.
Brussels sprouts	1	1.5	21 days.
Cabbage	1	1.5	21 days.
Carrots	1	1.0	15 days.
Cauliflower	1	1.5	21 days.
Celery	1	1.0	15 days.
Clover	1	1.0	15 days.
		1.25	20 days.
Collards	1	1.5	21 days.

*O,O-dimethyl O-p-nitrophenyl phosphorothioate

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METHYL PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn	1	0.25	12 days.
Cotton		3.0	Do not apply within five days of hand picking. (Workers entering fields within 24 hours after application should wear protective clothing).
Grapes	1	0.75	14 days.
Grass (hay or pasture)	1	0.8	15 days.
Hops		1.0	15 days.
Kale	1	1.5	21 days.
Kohlrabi	1	1.5	21 days.
Lettuce	1	1.0	21 days.
Mustard	1	1.5	21 days.
Oats		0.75	15 days.
		0.25	No time limitations.
Pasture (irrigated)	1 (grass forage)	0.1	7 days. Mosquito larvicide.
Peaches	1	4.0	14 days.
Pears	1	3.0	14 days.
Peas	1	1.0	15 days.
		0.25	10 days.
Peppers	1	1.0	15 days.
Plums	1	4.0	14 days.
Potatoes		1.5	5 days.
Rice		0.75	15 days.

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METHYL PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rutabagas	1	1.5	21 days.
Rye		0.75	15 days.
		0.25	No time limitations.
Safflower		0.5	Do not apply after flowering.
Sorghum		1.0	21 days. Leaf injury may occur on some varieties.
Soybeans		1.0	20 days.
Spinach	1	1.0	21 days.
Strawberries	1	0.75	14 days.
Sugar beets		0.375	20 days. 60 days if tops are to be fed to livestock.
Sweet potatoes		0.75	5 days.
Tomatoes	1	1.5	15 days.
Turnips	1	0.8	15 days. 21 days if tops are to be used as food or feed. Foliage treatment.
Vetch		1.0	15 days.
		1.25	20 days.
Wheat		0.75	15 days.
		0.25	No time limitations.
General:			
Mosquito larvicide (on irrigated pastures)	1.0 (grass forage)	0.1	7 days.

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6-METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE*

PRINCIPAL FORMULATIONS: 25% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples		lbs. actual/A.	
		4.5	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
		3.0	Processing fruit only. Do not apply within 35 days of harvest. Do not apply more than 3 times per season.
		1.5	35 days. Do not apply more than 5 times per season except that additional sprays may be made postharvest. Postbloom applications only by air blast or other equipment producing fine well dispersed droplets.
		0.75	35 days. Do not apply more than 10 times per season except that additional sprays may be made postharvest. Post-bloom applications only by air blast or other equipment producing fine well dispersed droplets.
Apricots		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
Cantaloupe		0.4	21 days. Do not apply more than 7 times per season.
Cherries		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
Citrus Fruits:		7.5	Florida and Texas only. Do not apply more than twice during crop year. Do not apply within 35 days of harvest.
Grapefruit			
Oranges			
Lemons			
Tangerines			

*Proprietary name: "Morestan"

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6-METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cucumbers		0.4	7 days. Do not apply more than 5 times per season.
Honeydew Melons		0.4	21 days. Do not apply more than 7 times per season.
Nectarines		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
Peaches		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
Pears		4.5	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
		3.0	Processing fruit only. Do not apply within 35 days of harvest. Do not apply more than 3 times per season.
Plums		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.
Prunes		3.0	Do not apply after first bloom. Additional application may be made to tree foliage after harvest.

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METHYLENE CHLORIDE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Grain (cont.)		gals./1000 bu.	
Sorghum	Exempt	0.6	Aerate thoroughly after fumigation until all odor has left grain.
Wheat	Exempt	0.375	Aerate thoroughly after fumigation until all odor has left grain.

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2,2'-METHYLENEBIS (3,4,6-TRICHLOROPHENOL)*

PRINCIPAL FORMULATIONS: 25% wettable powder; 0.75% dust.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans (snap)		0.5	Preemergence and postemergence drench in seed row areas until plants are established. Do not feed treated foliage to livestock.
		1.0	Preemergence and postemergence seedbed treatment only. Do not apply after seedling stage.
Cabbage		0.5	Preemergence and postemergence drench in seed row areas until plants are established. Do not feed treated foliage to livestock.
		1.0	Preemergence and postemergence seedbed treatment only. Do not apply after seedling stage.
Celery		0.5	Preemergence and postemergence drench in seed row areas until plants are established. Do not feed treated foliage to livestock.
		1.0	Preemergence and postemergence seedbed treatment only. Do not apply after seedling stage.
Citrus Fruits		2.5	5 days.
Cotton		0.25	Apply to furrow at time of planting or as a postemergence soil treatment. Do not apply after bolls open.
		0.23	Use only on cotton grown for replanting seed purposes.
Cucumbers		0.375	3 days.
Peaches		0.19 lbs./100 gals. of water	Do not apply to bearing trees after shuck-fall.

*Coined non-proprietary name: "Hexachlorophene"

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2,2'-METHYLENEBIS (3,4,6-TRICHLOROPHENOL)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peppers		1.0	Preemergence application.
		0.375	5 days.
Potatoes		0.19 lbs./100 gals. of water	Do not apply to harvested potatoes.
Tomatoes		0.375	5 days.
		1.0	Preemergence application.
Watermelons		0.5	Preemergence and postemergence drench in seed row areas until plants are estab- lished. Do not feed treated foliage to livestock.
		1.0	Preemergence and postemergence seedbed treatment only. Do not apply after seedling stage.

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4-(METHYLSULFONYL)-2,6-DINITRO-N,N-DIPROPYLANILINE

PRINCIPAL FORMULATIONS: 75% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		lbs. actual/A. 1.13	Preplanting soil incorporation. Apply 4 weeks before planting, up to time of planting. Do not graze treated cotton areas or feed treated cotton foliage or gin trash to livestock. -or- Preemergence soil incorporation at time of or immediately after planting. Do not graze treated cotton areas or feed treated cotton foliage or gin trash to livestock.
Soybean		1.13	Preplanting soil incorporation. Apply 4 weeks before planting, up to time of planting. Do not graze or feed forage from treated soybean fields. -or- Preemergence soil incorporation at time of or immediately after planting. Do not graze or feed forage from treated soybean fields.

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MONOSODIUM SALT OF 2,2'-METHYLENEBIS(3,4,6-TRICHLOROPHENOL)

PRINCIPAL FORMULATIONS: 13% and 20% liquid concentrates

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		ounces actual	
		1.125/100 lbs.	Seed treatment by slurry application. Do not use treated seed for food, feed or oil purposes.
		1.2/acre (ground equipment)	Do not use after boll formation.
		1.6/acre (by aircraft)	Do not use after boll formation.
		0.1 lb. actual/A.	Use only on cotton being grown for replanting seed purposes. Do not use seed from treated plants for food, feed or oil purposes. Do not graze treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARAQUAT*

PRINCIPAL FORMULATIONS: 42% EC bis(methylsulfate)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton	0.5 (cotton- seed) as para- quat cation	lbs. active cation/A. 0.5	Preharvest desiccant. Do not apply to cotton within 3 days before harvest. Do not apply more than 2 applications or exceed 2 pints per acre. Do not pasture lactating dairy animals. Do not pasture livestock in treated fields sooner than 15 days after treatment. Remove livestock from paraquat treated area at least 30 days before slaughter. Do not feed gin trash to livestock.
Potato	0.5 as para- quat cation	0.5	Preharvest vine killer. Do not apply to potatoes within 3 days before harvest. Do not pasture livestock in treated potato fields. Do not use on muck or peat soils. Do not make more than 2 applications with a minimum of 5 days between applications.

*1,1'-dimethyl-4,4'-bipyridinium (cation)

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PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton		1.2	Do not apply within 5 days of hand picking.
Cowpea	1	0.45	Do not use within 15 days of harvest.
Cranberries	1	0.8	15 days.
		1.0	30 days.
Cucumbers	1	0.5	15 days. Do not apply before vining.
		0.1 lb./50,000 cu. ft. of greenhouse space	15 days.
Currants	1	0.8	30 days.
Dates	1	0.8	21 days.
Dewberries		1.0	15 days.
Eggplants	1	0.8	15 days.
Endive (Escarole)	1	0.5	21 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days. Apply as an aerosol formulation.
Figs	1	2.5	30 days. Full coverage spray for control of fig scale.
Filberts		3.0	Full coverage spray. Do not apply after hulls begin to open.
Garlic	1	0.6	15 days.
Gooseberries	1	1.0	15 days.
Grapes	1	2.5	Apply only before fruit is the size of buckshot or after harvest.
		1.5	14 days.

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PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Grass hay	1	0.8	15 days.
Grass			
Pasture	1	0.8	15 days of pasturing or harvest.
Guavas	1	2.5	30 days.
Hops	1	0.8	15 days.
Kale	1	0.25	7 days.
		0.5	10 days.
Kohlrabi	1	0.8	7 days.
Lettuce (head)	1	0.5	7 days.
		5.0	Preplanting soil application.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days.
Lettuce (bibb leaf)	1	0.25	14 days.
		0.5	21 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days.
Loganberries	1	1.0	15 days. Dust or spray for control of mites and aphids.
Mangoes	1	3.0	21 days.
Melons	1	0.5	7 days.
Mustard greens	1	0.25	7 days.
		0.5	10 days.

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PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Nectarines	1	4.0	Areas other than California: Full coverage spray for control of scale insects. Do not apply within 14 days of harvest. Do not apply more than 5 lbs. actual parathion per acre per year.
		2.5	California: Do not apply within 21 days of harvest. Do not apply more than once after bloom. Do not apply more than 5 lbs. actual parathion per acre between January 1 and harvest.
Oats	1	1.5	15 days.
Okra	1	0.8	21 days.
Olives	1	11.0	Full coverage spray for control of olive scales. Do not apply later than Aug. 1.
Onions	1	0.8	15 days.
Pea Forage	1	0.5	15 days.
Peaches	1	4.0	Areas other than California: Full coverage spray for control of scale insects. Do not apply within 14 days of harvest. Do not apply more than 5 lbs. actual parathion per acre per year.
		2.5	California: Do not apply within 21 days of harvest. Do not apply more than once after bloom. Do not apply more than 5 lbs. actual parathion per acre between January 1 and harvest.
Peanuts	1	0.8	15 days.
		2.66	Soil application to row at time of planting or at pegging time. Work lightly into soil.
Pears	1	3.6	14 days. Full coverage spray.
Peas	1	0.5	10 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pecans		5.4	Full coverage spray. Do not apply within 15 days of harvest or after shucks open.
Peppers	1	0.8	15 days.
Pineapples	1	0.8	7 days.
Plums	1	4.0	14 days. Full coverage spray for control of scale insects.
Potatoes		1.0	5 days.
Prunes	1	4.0	14 days. Full coverage spray for control of scale insects.
Pumpkins	1	0.8	10 days.
Quinces	1	3.6	14 days. Full coverage spray.
Radishes	1	0.5	15 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	15 days. Apply as an aerosol formula- tion.
Raspberries	1	1.0	15 days.
Rice	1	0.1	1 day.
Rutabagas	1	0.8	7 days.
Safflower		0.5	Do not apply after flowering.
Sorghum		1.0	12 days (of harvest or cutting for for- age).
Soybeans		0.8	15 days.
Spinach	1	0.5	14 days.
Squash Summer Winter	1	0.5	15 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PCNB*

PRINCIPAL FORMULATIONS: 75% wettable powder; 25% liquid; 10%, 20%, and 40% dusts; 24% emulsifiable concentrate; 1.63% paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		12.0	One week after cutting or in late fall.
Bananas		1.63% paste	Apply to tips and butts of stems immediately after cutting. Do not apply to fruit.
Beans		7.5	Soil and seed treatment only (at planting time).
		5.0 (dust overall)	Foliar use. Do not feed treated vines to livestock.
		2.0 (spray directed at base of plant)	Do not apply after first bloom. Do not feed treated vines to livestock.
Broccoli		4.5 lbs./100 gals. water	Transplant solution 3/4 pint per plant.
		41.25	Row application--prior to transplanting.
		60.0	Broadcast--prior to planting.
Brussel Sprouts		4.5 lbs./100 gals. water	Transplant solution 3/4 pint per plant.
		41.25	Row application--prior to transplanting.
		60.0	Broadcast--prior to planting.
Cabbage		4.5 lbs./100 gals. water	Transplant solution 3/4 pint per plant.
		41.25	Row application--prior to transplanting.
		60.0	Broadcast--prior to planting.
Cauliflower		4.5 lbs./100 gals. water	Transplant solution 3/4 pint per plant.

*Pentachloronitrobenzene

All uses listed for PCNB refer only to field grown crops unless otherwise specifically noted.

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Replaces page issued 7-1-64

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PCNB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cauliflower (cont.)		41.25	Row application--prior to transplanting.
		60.0	Broadcast--prior to planting.
Clover		12.0	One week after last cutting or in late fall.
Cotton		5.0	Soil and seed treatment only (at planting time).
Cotton (seed)		5.5 oz./100 lbs seed	Seed treatment. Do not use treated seed for food, feed or oil purposes.
Garlic		10.2 lbs. per 1000 lbs.	Seed clove treatment (dust). Do not use treated seed for food or feed.
		22.5	Soil and seed treatment only (at planting time).
Lettuce (head)		22.5	Band application when plants are 2-3 inches high.
		4.0	Band application when plants are 2-3 inches high. Repeat application once ten days later (25-55 days preharvest).
		6.75	Three applications of 2.25 lbs. actual spaced 10 days apart. For use in cool climate areas. First application where plants are 2-3 inches high.
Peanuts		18.75	Surface band application at pegging time.
		20.0	Preplanting soil application only.
		18.0	Divided into three successive applications of six pounds per acre each during cultivations. Band treatment (12 inch band centered on row).
			Do not feed treated peanut hay to livestock.
Peppers		7.5	Trench treatment at planting time.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PCNB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes		10.0	Row application prior to planting.
		25.0	Broadcast prior to planting.
Sorghum		1.4 oz./100 lbs. seed	Seed treatment. Do not use treated seed for food or feed.
Tomatoes		7.5	Trench treatment at transplanting time.
Tomatoes (greenhouse)		0.5 pts. of 0.2% sol./plant	Transplant water.
Wheat		0.75 oz./bu. 0.75 oz./bu.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PENTACHLOROPHENOL*

PRINCIPAL FORMULATIONS: 2% liquid; 5.0%, 10%, 40%, and 96% emulsifiable concentrate; 75% pellets; 95% crystals; 42.5% - 88% wettable powders

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		3.8	Dormant season (Feb. or early March). Apply when weeds are in 2-5 leaf stage.
Seed Crop		6.0	Preharvest desiccant. Apply 1-4 days prior to date of harvest. Do not graze treated areas or feed treated forage or threshings to livestock.
Chemical Summer Fallow		4.0	Wet weeds thoroughly. (Used in combination with 2,4-D).
Almonds		30.0	Dormant (Jan.-Feb.) application only.
Apricots		15.0	Dormant application only, before green tip stage of bud development.
Asparagus (Seedlings)		6.0	Preemergence application. Do not apply after seedlings emerge.
Beans		0.05 lbs./1000 lbs. seed	Seed treatment. Do not use treated seed for food, feed, or oil purposes.
Citrus Fruits:			
Grapefruit		3.0	Apply as directed ground spray at any time.
Kumquats			
Lemons			
Limes			
Oranges			
Tangeloes			
Tangerines			
Clovers (undesignated) (seed crop)		6.0	Preharvest desiccant. Apply 1-4 days prior to date of harvest. Do not graze treated areas or feed treated forage or threshings to livestock.
Coffee		4.5	Apply as directed spray when weeds and grasses are small and succulent. (May be combined with 2,4-D).

*PCP

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PETROLEUM SOLVENTS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes	Exempt	gallons/A. 100.0 45.0	Preemergence application. Preharvest drying. Apply 14 days prior to harvest or when foliage starts to turn brown.
Raspberries	Exempt	40.0 100.0	Apply during dormancy as a directed spray to soil and lower 5 inches of canes. Apply as a directed spray when weeds are 1-2 inches high. Do not apply to canes.
Stored Grain:			
Barley		7.0 lbs. act./	Apply to surface layer of stored grain.
Corn		1000 sq. ft.	No time limitations.
Oats			
Rice		7.0 lbs. act./	Apply as a space spray over stored grain.
Rye		50,000 cu. ft.	Keep bin tightly closed for at least 10 minutes.
Sorghum (grain)			
Wheat			
Soybeans	Exempt	5.0	Postemergence application 12-14 days after emergence. Repeat application at 5-day intervals.
Strawberries	Exempt	100.0	Postemergence - apply between rows when weeds are not over 3 inches tall. Avoid application to strawberry plant.
Sugar beets	Exempt	100.0	Preemergence - apply before weeds are 3 inches tall.
Sugarcane	Exempt	50.0	Apply as directed spray to weeds as needed from planting to close-in.
Tomatoes	Exempt	40.0 100.0	Preemergence-apply when weeds are 2 inches high. Postemergence-apply between rows when weeds are not over 3 inches tall. Avoid application to tomato vines.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PETROLEUM SOLVENTS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals:		gallons/A.	
Beef cattle		2.0 oz.	No time limitations. Apply as a mist
Dairy cattle		(of distillate	spray. Do not wet hide of animal.
Goats		sprays per	
Sheep		adult animal)	
Swine		2.0%	No time limitations. As carriers of
Poultry		(in water)	other insecticides. Dip or spray.
			Thoroughly drench animals.
Agricultural Premises:			
Barns		7.0 lbs./	Apply thoroughly to all surfaces as a
Dairy barns		1000 sq. ft.	residual spray. Formulated with other
Grain bins			ingredients. Do not contaminate milk or
Milk rooms			milk handling equipment.
Poultry houses			
Others		7.5%	As carriers of other insecticides. Apply
		in water sprays	to all surfaces to the point of run-off.
			Do not contaminate milk or milk handling
			equipment.
		3.0%	As carriers of other insecticides. Fill
		in water sprays	room with mist and keep closed for ten
			minutes. Do not contaminate milk or
			milk handling equipment.
		99.0%	Formulated with other ingredients. Fill
			room with mist and keep tightly closed
			for ten minutes.
		44.0%	Formulated with other ingredients. Apply
			as a paint to roost, nests, etc. in
			poultry houses. Replace nesting and
			litter.
Irrigation and Drainage Ditches		1200.0	Apply metered amount near head of ditch.
			Water containing emulsion should be
			wasted or applied to crops which are
			irrigated from furrows. Do not contaminate
			water used for human or animal
			consumption. Do not use in lakes or
			ponds containing fish.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHENOL (CARBOLIC ACID)

PRINCIPAL FORMULATIONS: 3.0% paint with other ingredients

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cattle Goats Sheep Swine		3.0% paint with other ingredients	Apply as a wound dressing after dehorning, castrating, or other minor wounds.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHENOTHIAZINE*

PRINCIPAL FORMULATIONS: 15% and 36% wettable powders; mineral feed supplement

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	7	20.0	30 days.
Pears	7	20.0	30 days.
Quinces	7	20.0	30 days.
Animals:			
Beef cattle		15.0% (powder)	Apply liberally to animal and brush into hair, making sure powder reaches skin.
Goats			Do not apply to dairy animals.
Sheep			
Swine			
(excluding dairy cattle)			
Cattle		2.15 grams/ head daily or 0.25 grams/ 100 lbs. body weight daily	Feed in salt or mineral supplement. Do not feed to lactating dairy animals.

*Thiodiphenylamine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHENYL MERCURI LACTATE

PRINCIPAL FORMULATIONS: 5.3% solution

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples		1 pt./100 gals.	Early season application up to petal fall.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHENYL MERCURI TRIETHANOL AMMONIUM LACTATE

PRINCIPAL FORMULATIONS: 7.5% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		pints of formulation/A.	
Apples		8	Do not apply after petal fall.
Apricots		5	Do not apply after petal fall.
Cherries		5	Do not apply after petal fall.
Peaches		5	Do not apply after petal fall.
		30	Dormant application only.
Pears		8	Do not apply after petal fall.
Potatoes		32.6 ppm active	Seed piece treatment. Do not use treated seed pieces for food or feed.
Strawberries		2.5	Do not apply while fruit is present.
Sweet Potatoes		16.3 ppm active	Prebedding root and sprout dip. Do not use treated roots for food or feed.
Walnuts		10	Do not apply later than 3 months before harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

o-PHENYL PHENOL

PRINCIPAL FORMULATIONS: 5% liquid; 98% wettable powder; 2% in wax

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Carrots	20	0.5% in appropriate approved wax	Postharvest application by commercial wax applicator.
Citrus fruits		0.8% in wax	Postharvest application to fruit.
Cucumbers	10	2.5% in wax	Postharvest application by commercial wax applicator.
Nectarines	5	0.2% in wax	Postharvest application by commercial wax applicator.
Peaches	20	0.2% in wax	Postharvest application by commercial wax applicator.
Peppers	10	2.5% in wax	Postharvest application by commercial wax applicator.
Plums	20	2% in approved wax	Postharvest application by commercial wax applicator.
Tomatoes	10	2.5% in wax	Postharvest application by commercial wax applicator.
Crates Field boxes Hampers Lugs Wood containers for fruits and vegetables		5.0% liquid	Dip for 3 minutes. Drain and dry before using.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHORATE*

PRINCIPAL FORMULATIONS: 66% emulsifiable concentrate; 44% product containing 54% carbon dust and 2% methyl cellulose; 5%, 10% and 15% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa		lbs. actual/A. 2.0 1.0	Apply as a spray to seed in row at planting. Do not cut or graze within 60 days after planting. Granular formulations. Apply by drilling or broadcasting. Do not cut or graze within 60 days after planting.
Alfalfa (seed treatment)		0.88 lbs./ 15 lbs. seed	Seed treatment only. Do not cut or graze within 60 days after planting.
Barley (irrigated)		1.0	60 days. Do not graze treated fields.
Beans		2.0 (granular) (in 20 inch row spacing) or 1.9 oz. actual/ 1000 ft. of row, any row spacing.	Apply in furrow at planting time. Do not feed forage within 60 days of treatment. Do not place in direct contact with the seed.
Corn		1.0 (granular) (40 inch row spacing) or 1.2 oz. actual/ 1000 ft. of row, any row spacing.	Apply to furrow at planting time. Do not place in direct contact with seed or If not applied at planting time, apply at time of cultivation in a band at base of plant. Apply in June. Do not make any later applications.
Corn (Field)		1.0 (granular) (40 inch row spacing) or 1.2 oz. actual/ 1000 ft. of row, any row spacing.	Apply to whorl of plants immediately prior to tasseling. Do not apply if previous soil application was made.
Cotton		1.5 (granular) (40 inch row spacing.)	In furrow at planting time.

*O,O-diethyl S-(ethylthiomethyl) phosphorodithioate; proprietary name: "Thimet"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHORATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton (cont.)		lbs. actual/A. or 1.8 oz. actual/ 1000 ft. of row, any row spacing. 0.3	In furrow at planting time. Furrow treatment. Apply by hill-dropped method.
Cotton (irrigated only)		2.0 (granular) (40 inch row spacing.) or 2.4 oz. actual/ 1000 ft. of row, any row spacing.	As side-dressing on established plants, irrigate as soon as possible after treatment. Do not apply later than 60 days before harvest.
Cottonseed		0.88 lbs./amt. of seed required per acre	Seed treatment only.
Lettuce		1.0 (granular) (20 inch row spacing) or 0.6 oz. actual/ 1000ft. of row, any row spacing.	Use restricted to Northeastern states. Apply as a band on one or both sides of row at time of seeding or transplanting. Do not place granules in direct contact with seed.
Peanuts		1.0 (granular) (36 inch row spacing.) or 1.1 oz. actual/ 1000ft. of row, any row spacing 2.0 (granular) (36 inch row spacing.) or 2.2 oz. actual/ 1000 ft. of row, any row spacing.	Apply to furrow at time of planting. Do not graze immature crop. Band treatment of fruiting zone at pegg- ing time. Work into top few inches of soil. Do not graze immature crop.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHORATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		lbs. actual/A. 2.0 (granular) (light or sandy soils) (38 inch row spacing.) or 2.3 oz. actual/ 1000 ft. of row, any row spacing. or 3.0 (granular) (heavy soils) (38 inch row spacing.) or 3.5 oz. actual/ 1000 ft. of row, any row spacing.	Apply to furrow or in bands on each side of row at planting time. Apply to furrow or in bands on each side of row at planting time.
Rice		1.0 2.0 (granular)	Postharvest soil application. Use limited to the Federal-State cooperative program for the suppression of the rice plant hopper in Louisiana. Broadcast application by ground or air equipment. Do not apply within 45 days of harvest. Do not apply more than once per season. Do not permit inciden- tal harvest of crayfish or other edible fishes from treated field.
Sugar beets	0.3 (roots) 3.0 (tops) 1.0 (dried pulp for cattle)	1.0 (spray) 1.0 (granular) (30 inch row spacing.) or 0.9 oz. actual/ 1000 ft. of row, any row spacing.	Use restricted to Arizona, California, Colorado, Idaho, Oregon, and Washington. Foliage treatment. Do not apply within 30 days of harvest. Do not feed sugar beet tops or silage to dairy animals. Use restricted to Arizona, California, Colorado, Idaho, Oregon, and Washington. Apply by drilling or broadcast at seed- ing time. Do not feed sugar beet tops or silage to dairy cattle. Do not place in direct contact with seed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PHORATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugar beets (continued)	0.3 (roots) 3.0 (tops) 1.0 (dried pulp for cattle)	lbs. actual/A. 1.5	Use restricted to Arizona, California, Colorado, Idaho, Oregon, and Washington. Apply to foliage when plants are dry. Use the higher rate to dense foliage for good coverage. Do not apply within 30 days of harvest. Do not feed sugar beet tops or silage to dairy cattle.
Sugar beets (seed)	0.3 (roots) 3.0 (tops) 1.0 (dried pulp for cattle)	0.88 lb. actual per 25 lb. of seed.	Seed treatment only.
Tomatoes		2.0	Apply as a band treatment on either side of row at time of planting or transplanting. or Distribute evenly in seed bed prior to planting. Do not make more than one application per season.
		2.3 oz. actual (granular) per 1000 ft. of row, any row spacing.	Use restricted to Southeastern U. S. Apply in fertilized band on either side of row at seeding time or when plants are transplanted in the field. Do not apply directly to the seed.
Wheat		1.0	Apply to furrow at time of planting. Do not graze treated wheat.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

POLYETHYLENE POLYMER CONTAINING 3 PARTS OF [ETHYLENEBIS [DITHIOCARBAMATO]]
ZINC TO 1 PART OF [[DITHIOBIS[(THIOCARBONYL) IMINOETHYLENE]]
BIS [DITHIOCARBAMATO]] ZINC

PRINCIPAL FORMULATIONS: 80% wettable powder; 10% dust

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples		12.8	Apply to petal fall.
		9.6	Cover spray. Do not apply within 90 days of harvest.
Asparagus		2.4	Post-harvest application to ferns only.
Corn (sweet) for fresh vegetable use		3.2	Florida only. Do not apply within 1 day of picking. Do not feed forage to live-stock.
Cotton		1.0 actual/100 lbs. seed	Planter box seed treatment.
Peanuts		1.6	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Pecans		16.0	Do not apply after shuck-split.
Potatoes		1.6	No time limitations.
		1.7 oz./100 lbs.	Seed piece treatment.
Sugar beets		2.4	Do not feed treated tops to meat or dairy animals.
Tomatoes		1.9	Do not apply within 30 days of harvest.

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

POTASSIUM AMMONIUM ETHYLENE BISDITHIOCARBAMATE

PRINCIPAL FORMULATIONS: 25% solution; formulation is used in tank mix preparations by reaction of zinc sulphate to form zineb and manganese sulphate to form maneb. Rate of tank mixture equals 3 qts. of 25% solution per 100 gals. of water plus 0.75 lbs. of 36% metallie zinc sulphate & 0.75 lbs. of metallie manganese sulphate. Apply at the rate of 150 gals. of mixture/A.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beans (sueculent)	10 maneb 7 zineb	qts./100 gals. water 3.0	7 days.
Broeeoli	10 maneb 7 zineb	3.0	7 days.
Brussels sprouts	10 maneb 7 zineb	3.0	7 days.
Cabbage	10 maneb 7 zineb	3.0	7 days.
Cantaloupes	7 maneb 7 zineb	3.0	No time limitations.
Cauliflower	10 maneb 7 zineb	3.0	7 days.
Celery	10 maneb 7 zineb	3.0	No time limitations. Remove residues by washing, stripping, and trimming.
Corn (sweet)	7 maneb (kernel & cob) 7 zineb	3.0	No time limitations. Do not feed treated forage to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PYRETHRINS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Grain:		lbs. actual/A.	
Barley	3 ppm of	0.6 lbs./1000	Postharvest application. Apply directly to grain as it is placed in storage.
Birdseed mixtures	pyrethrins	bu. (dust)	
Buckwheat	20 ppm of	90 grams/1000	
Corn	piperonyl butoxide	bu. (spray)	
Rice		38.0 grams/1000	Postharvest application. Apply as a surface treatment to bagged or bulk stored grain.
Rye		sq. ft.	
Wheat		(dust or spray)	
Oats			
Sorghum (grain)	1 ppm of	0.6 lbs./1000	Postharvest application. Apply directly to grain as it is placed in storage.
	pyrethrins	bu. (dust)	
	8 ppm of	90 grams/1000	
	piperonyl butoxide	bu. (spray)	
		38.0 grams/1000	Postharvest application. Apply as a surface treatment to bagged or bulk stored grain.
		sq. ft.	
		(dust or spray)	
Miscellaneous Commodities:			
Cottonseed	1 ppm of	0.5 grams/1000	Postharvest application. Apply directly to and in space over commodities in storage.
Flaxseed	pyrethrins	cu. ft.	
	8 ppm of	1.0% (dust)	
	piperonyl butoxide		
Mushrooms	Exempt	7.0 grams/ standard mushroom house	No time limitations.
Peanuts	1 ppm of	68.0 grams/1000	Postharvest application. Apply directly to peanuts on conveyor as they are placed in storage.
	pyrethrins	bu.	
	8 ppm of		
	piperonyl butoxide		
		38.0 grams/1000	Postharvest application. Apply as a surface treatment to bulk or bagged peanuts in storage.
		sq. ft.	
		(dust or spray)	
		2.5 grams/1000	Postharvest application. Apply as a mist or space spray over stored peanuts.
		bu. (spray)	

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PYRETHRINS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables:		lbs. actual/A.	
Asparagus	Exempt	20.0 grams/A.	No time limitations.
Beans	Exempt	(spray)	
Beets	Exempt	0.3 (dust)	
Blackeyed Peas	Exempt		
Broccoli	Exempt		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PYRETHRINS

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (cont.)		lbs. actual/A.	
Brussels Sprouts	Exempt	20.0 grams/A. (spray)	No time limitations.
Cabbage	Exempt	0.3 (dust)	
Cantaloupes	Exempt		
Carrots	Exempt		
Cauliflower	Exempt		
Celery	Exempt		
Collards	Exempt		
Corn	Exempt		
Cowpeas	Exempt		
Cucumbers	Exempt		
Eggplants	Exempt		
Endive	Exempt		
Garlic	Exempt		
Horseradish	Exempt		
Kale	Exempt		
Kohlrabi	Exempt		
Leeks	Exempt		
Lettuce	Exempt		
Melons	Exempt		
Mustard greens	Exempt		
Okra	Exempt		
Onions	Exempt		
Parsnips	Exempt		
Peas	Exempt		
Peppers	Exempt		
Pimentoses	Exempt		
Potatoes	Exempt		
Pumpkins	Exempt		
Radishes	Exempt		
Rutabagas	Exempt		
Salsify	Exempt		
Shallots	Exempt		
Spinach	Exempt		
Squash (summer)	Exempt		
Squash (winter)	Exempt		
Sweet potatoes	Exempt		
Swiss chard	Exempt		
Tomatoes	Exempt		
Turnips	Exempt		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

RONNEL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Goats Sheep (Cont.)		5.0% (screw-worm treatment)	Apply locally to wounds, cuts, and scratches. Do not apply within 21 days of slaughter. Do not apply to lactating dairy animals or to dry dairy animals within 21 days of freshening.
Swine		0.5% (in water)	Dip or spray. Do not apply within 6 weeks of slaughter. Do not apply more frequently than once every 2 weeks.
		5.0% (screw-worm treatment)	Apply locally to wounds, cuts, and scratches. Do not apply within 21 days of slaughter.
Bedding		0.025 lbs. actual per 100 sq.ft.	Remove swine from treated bedding or replace bedding with untreated bedding, at least two weeks before slaughter.
Agricultural Premises:			
Barns		1.0% (in water)	Apply to interior surfaces as a residual spray at the rate of 3 gallons per 1000 sq. ft. Can be used as a bait spray by adding sugar and molasses. Do not contaminate milk or milking equipment.
Barn yards			
Dairy barns			
Hog pens			
Milk rooms			
Poultry houses			
Etc.		2.0% (in water)	Liquid bait formulations. Apply by brushing or spraying on walls, window sills, doorways, and other places where flies congregate. Do not contaminate milk or milking equipment.
		1.0%	Dry sugar bait formulation. Apply to floors, window sills, walks, and manure piles at the rate of 0.5 pound per 1000 sq. ft. Do not contaminate milk or milking equipment.
		2.0% (in water)	Spray poultry droppings under cages.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

RONNEL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: (continued) Barns Barn yards Dairy barns Hog pens Milk rooms Poultry houses Etc.		0.25% dust (in combination with other chemicals)	2 lbs. per 1000 sq. ft. evenly to area. Apply directly to manure accumulations by hand or scoop. Use gloves. Repeat as needed. Do not contaminate milk, milk handling equipment, feed, or drink- ing water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ROSIN

PRINCIPAL FORMULATIONS: With various toxicants as animal remedies

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef Cattle Dairy Cattle Goats Sheep Swine		10.0%	Formulated with various other ingredients as screw-worm remedies. Apply locally to wounds, etc. as needed until wounds have healed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SABADILLA

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (Cont.)		lbs./A. (whole ground seed)	
Kohlrabi	Exempt	10.0	No time limitations.
Leeks	Exempt		
Lettuce	Exempt		
Melons	Exempt		
Mustard Greens	Exempt		
Okra	Exempt		
Onions	Exempt		
Parsnips	Exempt		
Peanuts	Exempt		
Peas	Exempt		
Peppers	Exempt		
Pimentoes	Exempt		
Potatoes	Exempt		
Pumpkins	Exempt		
Radishes	Exempt		
Rutabagas	Exempt		
Salsify	Exempt		
Shallots	Exempt		
Spinach	Exempt		
Squash	Exempt		
(Summer)			
Squash	Exempt		
(Winter)			
Sweet Potatoes	Exempt		
Swiss Chard	Exempt		
Tomatoes	Exempt		
Turnips	Exempt		
Watermelons	Exempt		
Animals:			
Beef Cattle		20% (dust)	Formulated with other ingredients. Apply liberally to animals.
Dairy Cattle			
Goats		10.0% (powder)	Formulated with other ingredients. Apply liberally to animals.
Poultry			
Sheep			
Swine			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SCHRADAN*

PRINCIPAL FORMULATIONS: Technical material containing about 70% octamethyl pyrophosphoramidate; emulsifiable concentrate containing from 2 to 4 lbs. of active ingredient per gallon; 10% aerosols for greenhouse use

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton	0.75	lbs. Actual/A. 1.5	Apply to young plants 4 weeks after planting. Make a second application 3-4 weeks later if necessary.
Lettuce		2.0	40 days.
Walnuts (including English walnuts)		1.0	Single application. Do not apply after nuts are 1/2" in diameter. Do not apply later than June 10 in northern California or June 30 in southern California.

* Octamethyl Pyrophosphoramidate; also known as "OMPA"

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

SILICA AEROGEL

PRINCIPAL FORMULATIONS: 100%; also used with various toxicants as animal remedies

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: Barns Feed Rooms Grain Bins Etc. (exclude dairy barns) Animals: Beef Cattle Dairy Cattle Goats Sheep Swine		1.25 lbs./ 1000 sq. ft. 10.0%	Formulated with other ingredients and applied liberally to infested area. Do not contaminate feed or drinking water. Formulated with other ingredients and applied locally as screw-worm or ear tick remedies.

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SILVEX*

PRINCIPAL FORMULATIONS: 59-65 and 67.9% emulsifiable concentrates including butoxy-ethanol, iso-octyl and propylene glycol butyl ether esters; 10.4% amine salt solution; 10.6% triethanolamine salt

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples		20 ppm	Preharvest drop. Apply 4 days before harvest drop normally begins. No pre-harvest limitations.
		61 grams/A.	Concentrated spray application.
Pastures & Ranges		4.0	Woody plants and brush. Apply in late spring thru season until 3 weeks before frost. Do not use on freshly seeded pastures or rangelands.
		0.75	Mesquite control. Make an application in late spring when plants have leaves fully expanded.
Pears		7.5 ppm	Postharvest application to trees immediately after harvest.
Prunes		20 ppm	Do not apply within 60 days of harvest.
Sugarcane			
Florida		1.5	Postemergence broadcast application. Make second application before cane is 3 1/2 feet tall.
Hawaii		5.0	Preemergence application immediately after planting or ratooning and before cane emerges.
		5.0	Postemergence application as a directed spray to weeds in interline space. Do not spray cane. Do not apply more than twice to any one crop.

*2(2,4,5-trichlorophenoxy) propionic acid
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SILVEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane (cont.)		lbs. actual/A.	
Louisiana		3.0	Preemergence application and/or immediately after shaving and offbarring. or Postemergence application, repeat if needed. Do not apply within 5 months before harvest. May apply any time to cane grown for planting purpose only. (Not to be used for food or feed).
Rice		1.5	Treat 4-8 weeks after emergence of rice. If flooded, treat 7-9 weeks after seeding.
Lakes & Ponds		lbs. actual/A. ft. of water	
Submerged Weeds		5	Apply in late spring or early summer as spray over surface or lake or pond.
Emerged Weeds		8	Apply as above or on emerged foliage. Avoid use in waters intended for irrigation, crop spraying or domestic and animal water supplies. Some fish kill may occur.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE*

PRINCIPAL FORMULATIONS: 50% and 80% wettable powders; 4%, 8%, and 10% granular formulations; 25% paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	15	1.6	Use restricted to Pacific Northwest States. Overall to established crop before weeds emerge between first killing frost and January 1. Alfalfa should be established at least one year. Do not graze treated areas for 30 days or cut for hay for 60 days.
Almonds		4.0	Single application to orchard floor before weeds emerge in orchards established one or more years. Do not apply to foliage or while nuts are on ground.
Apple		4.0	Apply to orchard floor anytime before weeds emerge. Apply only to orchards established one or more years. Do not apply to foliage or fruit. Do not apply to sandy soil.
Artichokes		4.0	Directed spray after last fall tillage around established crop plants.
Asparagus (established)		4.0	Apply in spring after disking and prior to weed and spear emergence. Repeat application at end of harvest season after weedy growth has been removed.
Avocados		4.0	Apply to orchard floor before weeds emerge following final preparation of the grove. Do not apply to foliage or fruit.
Bermudagrass	15	3.2	Overall to newly sprigged or established crop before weeds emerge from fall to spring. Do not graze treated areas for 60 days or cut for hay for 90 days.
Blackberries		4.0	Apply in the spring before weeds emerge and fruit set, or in fall after harvest, or use half dosage fall and spring. For new planting use half dosage. Do not apply to foliage or while fruit is present.

*2-chloro-4,6-bis (ethylamino)-s-triazine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Blueberries		4.0	Apply in the spring before weeds emerge and fruit set, or in fall after harvest, or use half dosage fall and spring. For new plantings use half dosage. Do not apply to foliage or while fruit is present.
Boysenberries		4.0	Apply in the spring before weeds emerge and fruit set, or in fall after harvest, or use half dosage fall and spring. For new plantings use half dosage. Do not apply to foliage or while fruit is present.
Cherries (sour)		4.0	Apply to orchard floor anytime before weeds emerge. Apply only to orchards established one or more years. Do not apply to foliage or fruit. Do not apply to sandy soils.
Cherries (sweet)		4.0	Soil application around established trees after harvest to early spring. Do not apply to foliage or fruits.
Corn		4.0	Preplant application in fall. Plow land in spring just prior to planting corn. Do not plant any crop except corn the following year. Do not graze treated areas. or Preemergence--do not replant treated areas to any crops other than corn during the season.
Cranberries		4.0	Use restricted to Massachusetts. Post-harvest or dormant overall soil application.
		2.0	Apply in spring before weeds emerge.
Grapefruit		4.0	Use restricted to California. Application to grove floor before weeds emerge in orchards established one or more years. Avoid contact of foliage or fruit with spray.

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Grapefruit (continued)		4.8	Use restricted to Texas. Application to grove floor before weeds emerge in orchards established one or more years. Avoid contact of foliage or fruit with spray.
		9.6	Use restricted to Florida. Apply in spring (March-April). Do not contaminate fruit with chemical.
Grapes		4.8	Apply to vineyard floor from late fall after harvest to early spring to vineyards established 3 or more years.
Grasses (seed crop)	15	2.0	Use restricted to Pacific Northwest States Overall to seed crop cut at least once as fall rains start before weeds emerge. Do not graze treated areas for 30 days or cut for hay for 60 days.
Lemons		2.0	Use restricted to Arizona. Apply in fall following final preparation of grove and prior to weed emergence. Repeat annually in midwinter or apply once in fall and repeat in spring prior to weed emergence. Do not apply in groves less than one year old or in nurseries. Avoid contact with fruit.
		4.0	Use restricted to California. Application to grove floor before weeds emerge in orchards established one or more years. Avoid contact of foliage or fruit with spray.
Loganberries		4.0	Apply in the spring before weeds emerge and fruit set, or in fall after harvest, or use half dosage fall and spring. Do not apply to foliage or while fruit is present.
Macadamia orchards		4.0	Apply just prior to weed emergence or just before harvest and repeat immediately after gathering nuts from ground. Do not exceed 8 lbs. actual per acre per year.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Olives		lbs. actual/A. 4.0	Broadcast single soil application in late fall or mid-winter. Do not apply to foliage or fruit.
Oranges Established		9.6	Use restricted to Florida and Texas. Apply in spring (March and April). Repeat annually. Do not contaminate fruit with chemical.
		2.0	Use restricted to Arizona. Apply in fall following final preparation of grove and prior to weed emergence. Repeat annually in mid-winter or apply once in fall and repeat in spring prior to weed emergence. Do not apply in groves less than one year old or in nurseries. Avoid contact with fruit.
		4.0	Use restricted to California. Apply to grove floor before weeds emerge in orchards established one or more years. Avoid contact of foliage or fruit with spray. Do not use in the Imperial, Coachella, and Palo Verde Valleys.
		4.8	Use restricted to Texas. Application to grove floor before weeds emerge in orchards established one or more years. Avoid contact of foliage or fruit with spray.
Peaches		4.0	Soil application around established trees after harvest to early spring. Do not apply to foliage or fruits.
Pears		4.0	Single application to orchard floor anytime before weeds emerge in orchards established one or more years. Do not apply to sandy soils.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pineapple		6.0	Apply as an overall spray immediately after planting (and after harvest if a ratoon crop is to be grown) and prior to weed emergence. Repeat application of 1.6 lbs. actual per acre as needed. Do not apply more than 30 lbs. actual per acre per crop cycle. Do not apply within 45 days of harvest.
Plums		4.0	Soil application around established trees after harvest to early spring. Do not apply to foliage or fruits.
Raspberries		4.0	Apply in the spring before weeds emerge and fruits set, or in fall after harvest, or use half dosage fall and spring. For new plantings, use half dosage. Do not apply to foliage or while fruit is present.
Strawberries (Marshall, Northwest)		1.0	Apply 3-4 weeks after planting. Second application in fall of first year. Post-harvest application to be followed by irrigation.
Sugarcane		4.0	Apply at or immediately after planting and before weeds or cane emerge. For ratoon crop, apply immediately after harvest, or before cane emerges. or Postemergence. Apply once over cane or two directed sprays between rows. Do not apply more than 10 lbs. per acre per crop. Do not apply after "close in."
Walnuts		4.0	Single application prior to weed emergence or crop cycle to floor in orchards established one or more years. Do not apply to foliage or while nuts are on the ground. Do not apply to sandy soil.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM CHLORATE

PRINCIPAL FORMULATIONS: 59% soluble powder; 40% wettable powder; 12%, 20%, and 23.5% dusts; 4.7%, 18.2%, 18.5%, 19%, 22%, and 28% liquids; 30% granular (with metaborate)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans (dry)		4.1	7 days. Preharvest defoliation.
Cotton		5.0	Preharvest defoliation and desiccation. Do not apply within 7 days of harvest. Do not graze treated areas or feed gin waste to livestock.
		261	Spot treatment for Johnson grass. Wet foliage and soil. Do not graze treated areas or feed gin waste to livestock.
Fallow land		771.0	Spot treatment. Wet foliage thoroughly. Keep animals off treated areas. Land may remain barren for 6 months after treatment.
Potatoes		16.0	Do not apply within 2 weeks of harvest.
Rice		6.0	Desiccant - Apply when rice is fully mature with panicles turned down and yellowish, 7-10 days before combining.
Sorghum		6.0	Desiccant - Apply when sorghum is fully mature 7-10 days before harvest.
Tomato		4.0	Plant desiccant. Apply after first picking. Repeat application after second picking if necessary.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM CRESYLATE*

PRINCIPAL FORMULATIONS: 11.0% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef Cattle Dairy Cattle Goats Sheep		0.1% (in water)	Formulated with other ingredients for use as a dip. Thoroughly drench animals. No time limitations.

*Also see "Sodium Arsenite"

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM DIMETHYL DITHIOCARBAMATE (III)

PRINCIPAL FORMULATIONS: 40% in wax emulsion

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cantaloupes	25	lbs. actual 0.16/50 crates	Postharvest treatment during brushing operation.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM o-PHENYLPHENATE

PRINCIPAL FORMULATIONS: 97.0% wettable powder
 1.5%, 11.5%, 2.0%, 23.0%, 30.0%, 34.0%, and 40.0% solutions
 0.7%, 1.0%, 2.0% wax emulsion

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	25	0.45% solution	Postharvest treatment. Dip fruit for 45 seconds and rinse with fresh water.
		0.69% solution	Postharvest spray for 30 seconds. No rinse needed.
		0.23% solution	Postharvest dip or spray for 30-45 seconds. No rinse needed.
		0.36% solution	Expose fruit up to 4 minutes. Follow with rinse.
		1.45% solution	Foam washer treatment for up to 30 seconds followed by rinse.
Bananas		2.0%	Postharvest treatment. Spread evenly over exposed cut stem area of crown of head area. Do not contaminate skin or fruit.
Cantaloupes	125 (not more than 10 in edible portion)	1.5% solution	Postharvest dip or spray. Allow to drain; do not rinse.
Carrots	20	0.1% (in water)	Postharvest dip, flood or spray.
		0.5%	Solvent system wax applicator.
Cherries	5	1.0% water solution with wetting agent	Postharvest dip or spray. Rinse briefly with fresh water.

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SODIUM o-PHENYLPHENATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Citrus Fruits:			
Citron	10	3.0% in water	Postharvest treatment. Dip 2 minutes; rinse with fresh water.
Grapefruit	10	plus caustic and hexamine	
Kumquats	10		
Lemons	10		
Limes	10	1 gal. 1% wax emulsion per 10,000 lbs. fruit	Postharvest application by wax foamer or suitable spray unit.
Oranges	10		
Tangelos	10		
		1 gal. 0.5% anhydrous wax emulsion per 5000 lbs. of fruit.	Postharvest applications as wax coating.
Cucumbers	10	1.0% (in water)	Postharvest dip, flood or spray. Flush with water for at least 30 seconds after treatment.
		2.0%	Commercial wax applicator.
Nectarines	5	1.0% (in water)	Postharvest dip, flood or spray. Flush briefly with fresh water after treatment.
Peaches	20	0.05% solution	Postharvest dip for 15-18 minutes at 33-35°F. Allow to drain; do not rinse.
		0.6% water solution	Postharvest dip for 20-30 seconds. Rinse fruit after treatment. If machine is stopped during operation, immediately rinse fruit manually.
		0.14% anhydrous wax emulsion	Postharvest dip, flood or spray application. Use 1 gallon of solution per 680-3000 lbs. of peaches. No rinse.

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SODIUM o-PHENYLPHENATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Pears	25	0.45% solution	Postharvest treatment. Dip fruit for 45 seconds and rinse with fresh water.
		0.23% solution	Postharvest dip or spray for 30-45 seconds. No rinse required.
		0.36% solution	Expose fruit up to 4 minutes. Follow with rinse.
		1.45% solution	Foam washer treatment for up to 30 seconds followed by rinse.
Peppers	10	1.0% (in water)	Postharvest dip, flood or spray. Flush with water for at least 30 seconds after treatment.
		2.0%	Commercial wax applicator.
Pineapple	10	1.25% (in water)	Postharvest dip. Remove immediately. Do not rinse.
		1 gal. 1% wax emulsion per 10,000 lbs. fruit.	Postharvest application by wax foamer or suitable spray unit.
Plums	20	0.1% (in water)	Postharvest dip, flood or spray. Flush briefly with water after treatment.
		2.0%	Solvent system commercial wax applicator.
Sweet potatoes	15	0.5% solution (tetrahydrate)	Postharvest flooding. Use 1 gal. of solution per 2000 lbs. of sweet potatoes.
		or	
		0.37% solution (anhydrous)	
Tomatoes	10	0.7% (anhydrous) wax emulsion	Postharvest application at the rate of 1 gallon per 4,000 lbs. of sweet potatoes.
		1.0% (in water)	Postharvest dip, flood or spray. Flush with fresh water for at least 30 seconds.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

3-TERT-BUTYL-5-CHLORO-6-METHYLURACIL*

PRINCIPAL FORMULATIONS: 80% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apple	0.1	3.2	Single spring spray to soil of orchards established 3 or more years. Do not replant treated area to any crop within two years after last application. Do not contact foliage or fruit.
Citrus: (grapefruit) (lemon) (orange)	0.1	6.4	Use restricted to Arizona and California. Single directed spray to soil of orchards established 2 or more years from winter to early summer or split application in fall and spring. Do not replant treated areas to any crop, except grapefruit, orange and lemon may be planted after one year. Do not contact foliage or fruit.
(grapefruit) (orange)	0.1	8.0	Use restricted to Texas. Single spring or early summer spray to soil of orchards established 2 or more years. Do not replant treated areas to any crop except orange and grapefruit within 2 years after last application. Do not contact foliage or fruit.
		4.0	Use restricted to Florida. Early spring or summer directed spray to soil of orchards established 2 or more years. Do not replant treated area to any crop within 2 years after last application, except orange and grapefruit may be planted after 1 year. Do not apply more than 8 lbs. act./A. per year. Repeat once when needed.
Peach	0.1	3.2	Single spring spray to soil of orchards established 3 or more years. Do not replant treated area to any crop within 2 years after last application. Do not contact foliage or fruit.

*Proprietary Name: Sinbar

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3-TERT-BUTYL-5-CHLORO-6-METHYLURACIL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Peppermint	0.1 (hay)	1.6	Preemergence: Apply in spring after last cultivation. Do not replant treated areas to any other crop within 2 years.
Sugarcane	0.1	3.2	Use restricted to Louisiana. Preemergence: single spring application immediately after off-barring and covering fall planted cane or first year stubble crop not treated previous fall. Do not replant treated area to any crop within one year after last application. or Use restricted to Louisiana. Preemergence: split application. One-half dosage in fall immediately after planting and repeat immediately in spring after off-barring. Do not replant treated area to any crop within one year after last application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

THIRAM*

PRINCIPAL FORMULATIONS: 65% wettable powder; 40%, 50% and 75% seed protectants; 2% paste; 10% dust

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	7	6.5 lbs.act./A.	No time limitations.
Bananas	7	0.16% (in water)	Postharvest application to crowns and fruit following removal of stems, at the rate of 5 gallons per 100 trays (40 lbs. each).
	1 (in pulp)	2.0% paste	Brush application to cut stems and crowns.
Beans			
Lima		1.7 oz./100 lbs.	Seed treatment (dry).
String		1.5 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
Beans			
Snap		1.1 oz./100 lbs.	Seed treatment (dry).
		1.0 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
Celery	7	0.25 lbs./ 1200 sq. ft.	Transplant bed treatment only.
		2.0 lbs. act./A.	7 days. Remove residues by stripping, trimming, and washing.
Corn			
Field		1.5 oz./100 lbs.	Seed treatment (dry).
		1.3 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
Sweet		1.5 oz./100 lbs.	Seed treatment (dry).
		4.0 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
Cotton		1.5 oz./100 lbs.	Soil and seed treatment in furrow at time of planting
		2.0 lbs. act/A.	Furrow treatment.

*Tetramethyl thiuram disulfide

USDA Summary of Registered Agricultural Pesticide Chemical Uses

THIRAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cottonseed:			
Acid delinted		3.0 oz./100 lbs. 2.3 oz./100 lbs.	Seed treatment (dry) Seed treatment (slurry). Do not use treated seed for food, feed, or oil.
Cowpeas		1.1 oz./100 lbs. 1.0 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Millet		1.2 oz./100 lbs. 2.0 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food, feed, or oil.
Okra		3.0 oz./100 lbs.	Seed treatment. Do not use treated seed for food or feed.
Onions		2.0 lbs. act./A.	Furrow treatment.
Bulbs		8.0 oz./10 lbs.	Bulb treatment (pelletized).
Sets		8.0 oz./10 lbs.	Seed treatment (dry).
Peaches	7	6.5 lbs. act./A.	7 days.
Peanuts			
Shelled		2.25 oz./100 lbs.	Seed treatment (dry or slurry).
Unshelled		1.5 oz./100 lbs.	Seed treatment (dry). Do not use treated seed for food, feed, or oil.
Peas		1.7 oz./100 lbs. 1.5 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry).
Rice		3.0 oz./100 lbs. 1.7 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Sesame		2.25 oz./100 lbs.	Seed treatment (dry or slurry). Do not use treated seed for food, feed, or oil.

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THIRAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sorghum		1.2 oz./100 lbs.	Seed treatment (dry)
		2.0 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
		4.0 lbs. act./A.	Preharvest spray directed to seed heads. Seed crop use. Do not use treated grain for feed, food, or oil. Do not graze treated fields.
Soybeans		1.1 oz./100 lbs.	Seed treatment (dry).
		1.0 oz./100 lbs.	Seed treatment (slurry). Do not use treated seed for food or feed.
		1.0 oz./bu.	Planter box seed treatment.
Strawberries	7	3.3 lbs. act./A.	Remove residues by washing if applications are made within 3 days of harvest.
Sweet potatoes		0.75 lb./7 1/2 gals.	Preplanting root dip for 1/2 minute.
Tomatoes	7	2.5 lbs. act./A.	No time limitations.

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TOXAPHENE*

PRINCIPAL FORMULATIONS: 46.6% and 80% liquid concentrates (not emulsifiable); emulsifiable concentrates containing 4, 6, or 8 lbs. per gallon; 50% wettable powder; 10% to 20% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		2.5	Apply in early spring or after cutting before new growth is 4 inches tall.
		3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Apples	7	16.0	Do not apply after second cover spray or within 40 days of harvest.
Apricots	7	12.0	Do not apply after second cover spray or within 40 days of harvest.
Asparagus		5.0	Post-harvest treatment only.
Avocados		10.0	Do not apply after fruit starts to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Bananas	3 (not more than 0.3 in pulp)	1.5	1 day.
		3 pints of 80% liquid concentrate/A.	Apply by aircraft as ultra low volume (undiluted) spray. Do not graze treated areas to dairy animals or animals being finished for slaughter.
Barley	5	3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter. No restriction on the use of the grain.
Barley			
Seed		2.0 oz./bu.	Do not use as food or feed.

*Chlorinated camphene containing 67% to 69% chlorine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beans (including dry, green, and lima)	7	lbs. actual/A. 6.0	No limitation on use of shelled beans as human food. Do not apply dusts to green or snap beans within 7 days of harvest. Do not apply sprays to green or snap beans after pods begin to form. Do not feed treated vines to dairy animals or animals being finished for slaughter.
(snap, green, and lima)		3 (dust only)	5 days. Do not feed treated vines (forage) to dairy animals or animals being finished for slaughter.
Beans seed		2.0 oz./bu.	Do not use as food or feed.
Beets		6.0	30 days. Do not use tops for food or feed.
Blackberries	7	4.0	Do not apply after fruit begins to form.
Blueberries		4.0	Do not apply after fruit begins to form.
Boysenberries	7	4.0	Do not apply after fruit begins to form.
Broccoli	7	8.0	Do not apply after edible parts begin to form or within 30 days of harvest.
Brussels Sprouts	7	8.0	Do not apply after edible parts begin to form or within 30 days of harvest.
Bush & Vine Fruits:			
Blackberries		25.0	Preplanting soil treatment or when no fruit is present. Single application.
Blueberries			
Boysenberries			
Cranberries		5.0	Wet or dry bait formulation. Do not apply broadcast when edible parts are present.
Currants			
Dewberries			
Gooseberries			
Grapes			
Huckleberries			
Loganberries			
Raspberries			
Strawberries			
Youngberries			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cabbage	7	2.5	Do not apply within 7 days of harvest if cabbage will be marketed after outer leaves have been removed. Do not apply after heads start to form if cabbage will be marketed with outer leaves intact.
		4.0	Do not apply after heads start to form.
Carrots	7	5.0	No time limitations.
Cauliflower	7	8.0	Do not apply after edible parts start to form or within 30 days of harvest.
Celery	7	5.0	Do not apply after plants start to bunch or after plants are half mature.
Cherries		12.0	Do not apply within 40 days of harvest or after second cover spray.
Citrus:			
Grapefruit	7	10.0	30 days. Dust, spray, or granular formulations. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Kumquats	7		
Lemons	7		
Limes	7		
Oranges	7		
Tangeloes	7	5.0	Wet or dry bait formulation. Do not apply broadcast when edible parts are present.
Tangerines	7		
		50.0	To be applied as a soil treatment when no fruit is present. Do not feed treated forage to dairy animals or animals being finished for slaughter. Single application.
Clover		2.5	Apply in early spring or after cutting before new growth is 4 inches tall.
		3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Collards	7	2.0	14 days (dust). 28 days (spray).
		4.0	21 days (dust). 35 days (spray).
		8.0	Do not apply after edible parts start to form.
Corn	7	2.0	Granular formulations only. Do not feed ensilage from treated corn to dairy animals or animals being finished for slaughter. Do not graze dairy animals on treated stover. Do not graze meat animals on treated stover within 4 weeks of slaughter. No limitation on use of grain.
		6.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. No limitation on use of grain.
Cotton	5 (cotton-seed)	4.0	Do not graze dairy animals or animals being finished for slaughter in fields treated late in the season.
		8.0	Do not apply after bolls open.
		3.0	Apply with DDT as an undiluted (ultra low volume) spray by aircraft. Do not graze dairy animals or animals being finished for slaughter on treated areas.
Cowpeas	7	3.0	No limitation on use of shelled peas as human food. Do not apply to cowpeas to be used as green snaps after pods begin to form. Do not feed treated vines to dairy animals or animals being finished for slaughter.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	7	5.0	Do not apply after fruit starts to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cucurbits		3.0	Do not apply after edible parts start to form. May be injurious to plant growth.
Currants		4.0	Do not apply after fruit starts to form.
Deciduous Fruits & Nuts:			
Almonds		5.0	Wet or dry bait formulation. Do not apply broadcast when edible parts are present.
Apples			
Apricots			
Cashews			
Cherries		25.0	Soil application. Apply to trunk, scaffold branches, and soil when no fruit is present. Do not feed treated forage to dairy animals or animals being finished for slaughter. Single application.
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory Nuts			
Nectarines			
Olives			
Peaches			
Pears			
Pecans			
Persimmons			
Plums			
Pomegranate			
Prunes			
Quinces			
Walnuts			
Dewberries	7	4.0	Do not apply after fruit begins to form.
Eggplants	7	3.0	5 days.
		6.0	Do not apply after edible parts start to form.
Endive		4.0	Do not apply after seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pecans	7	10.0	No time limitations.
Peppers	7	3.0	5 days.
		6.0	Do not apply after peppers begin to form.
Pimentos	7	2.0	2 days.
		5.0	Do not apply after edible parts start to form.
Pineapple	3	2.25	Apply when first whorl of flowers is open and repeat 7-10 days later. Do not feed waste from treated pineapples to dairy or meat animals.
		20.0	Preplanting soil treatment or at time of planting. Single application.
Plum		12.0	Do not apply within 40 days of harvest or after second cover spray.
Potatoes		6.0	Foliage treatment only. No time limitations.
Prunes		12.0	Do not apply within 40 days of harvest or after second cover spray.
Quinces	7	16.0	Do not apply within 40 days of harvest or after second cover spray.
Radishes			
Field	7	5.0	No time limitations.
Greenhouse			
Raspberries	7	4.0	Do not apply after fruits begin to form.
Rice	5	3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter. No limitation in the use of grain.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rice Seed		2.0 oz./bu.	Do not use as food or feed.
Rutabagas	7	6.0	Do not use treated tops for food or feed.
Rye	5	3.5	Do not feed treated forage to dairy animals or animals being fattened for slaughter. No limitation on the use of grain.
Rye Seed		2.0 oz./bu.	Do not use as food or feed.
Salsify		3.0	Do not apply after seedling stage.
Shallots		3.0	Do not apply after seedling stage.
Sorghum	5	2.0	28 days. Do not apply more than once after heads start to form. Do not graze dairy animals or animals being finished for slaughter on treated fields. Do not ensile treated forage.
		3.0	40 days. Do not apply more than once after heads start to form. Do not graze dairy animals or animals being finished for slaughter on treated fields. Do not ensile treated forage.
Sorghum Seed		2.0 oz./bu.	Do not use as food or feed.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Soybeans	2.0 (soybeans, dry form) 3.5 (combined toxaphene and DDT, toxaphene not to exceed 2.0 ppm) 6.0 (crude soybean oil)	lbs. actual/A. 4.0 3.0	21 days. Do not feed treated plants or ensilage made from treated plants to poultry, dairy animals, or animals being finished for slaughter. Do not feed soybean mill trash to livestock or poultry. Apply with DDT as an undiluted (ultra low volume spray by aircraft. Do not apply closer than 21 days before harvest. Do not make more than two applications after pods form. Do not feed plants treated with Toxaphene-DDT or ensilage made from treated plants to poultry, dairy animals or animals being finished for slaughter. Do not feed soybean mill trash to livestock or poultry.
Soybeans Seed		2.0 oz./bu.	Do not use as food or feed.

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

TRIFLURALIN*

PRINCIPAL FORMULATIONS: 44.5% emulsifiable concentrate containing 4 lbs. actual/gal.;
1.75% and 5% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa (seed crop)		1.0	Soil incorporation to established crop. Do not graze or feed forage from treated fields.
Beans (dry)		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Beans (snap)		0.75	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Broccoli		0.75	Preplant (direct seeded): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
		1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Brussels sprouts		0.75	Preplant (direct seeded): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
		1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Cabbage		0.75	Preplant (direct seeded): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or

*a,a,a-trifluoro-2,6-dinitro-N,N-di-propyl-p-toluidine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TRIFLURALIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cabbage (cont.)		lbs. actual/A. 1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Castorbeans		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Cauliflower		0.75	Preplant (direct seeded): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
		1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Cotton		1.25	Preplant (in fall prior to spring planting): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
			Preemergence: soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
			Postemergence: directed spray and soil incorporate immediately. Apply between emergence and 90 days before harvest. Do not graze or feed forage from treated fields.
Lima beans		0.75	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TRIFLURALIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Okra		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Peanuts (Spanish)		0.5	Use restricted to Texas and Oklahoma. Preplant: soil incorporated immediately. Do not graze or feed forage from treated fields.
			or
			Use restricted to Texas and Oklahoma. Preemergence: soil incorporate immediately. Do not graze or feed forage from treated fields.
Peppers		1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Safflower		1.5	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Southern Peas		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Soybeans		1.25	Preplant (in fall prior to spring planting): soil incorporate immediately. Do not graze or feed forage from treated fields.
			or
		1.0	Preplant: soil incorporate immediately. Do not graze or feed forage from treated fields.
Sugar beets	0.05	0.75	Postemergence: overtop and soil incorporate immediately. Apply after blocking, when plants are 2-6 inches tall.

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TRIFLURALIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes		lbs. actual/A. 1.0	Pretransplant: soil incorporate immediately. Do not graze or feed forage from treated fields. or Postemergence: directed spray and soil incorporate immediately. Apply to direct seeded plants at time of blocking. Do not graze or feed forage from treated fields.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TRIPHENYL TIN HYDROXIDE

PRINCIPAL FORMULATIONS: 20% and 50% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Pecans		lbs. actual/A. 3.1	Do not apply after shucks start to open. Do not graze livestock on treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINEB*

PRINCIPAL FORMULATIONS: 75% wettable powder;
3%, 3.9%, 4.6%, 7.6%, 10.0%, and 16.25% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds		12.0	Dormant to petal fall and postharvest.
Apples	7	12.0	No time limitations.
Apricots	7	7.6	Petal fall.
Asparagus		3.0	Postharvest.
Barley		0.5 oz./bu. <u>1</u> /	Seed treatment (dry or slurry). Do not use treated seed for food or feed.
Beans	7	3.0	7 days.
		1.8	Seed and soil treatment.
		1.1 oz./bu. <u>1</u> / 0.8 oz./bu. <u>1</u> /	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Beets	7 (roots)	3.0	7 days if tops are to be consumed.
	25 (tops)		
Blackberries	7	1.2	14 days.
Boysenberries	7	1.2	14 days.
Broccoli	7	4.8	7 days.
Brussels sprout	7	4.8	7 days.
Cabbage	7	4.8	7 days.
Carrots	7	3.0	7 days if treated tops are to be used as food or feed.
Cauliflower	7	4.8	7 days.

*Zinc ethylene bisdithiocarbamate
1/ Used with captan

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Celery	7	3.0	No time limitations. Remove residues by washing and stripping.
Cherries	7	7.5	7 days.
Chinese cabbage	25	3.0	7 days.
Citrus fruits:			
Grapefruit	7	20.0	No time limitations.
Kumquats	7		
Lemons	7		
Limes	7		
Oranges	7		
Tangeloes	7		
Tangerines	7		
Collards	25	3.0	7 days.
Corn	7	3.0	Do not feed forage to dairy animals or animals being finished for slaughter.
		0.5 oz./bu. $\frac{1}{2}$	Seed treatment (dry).
		0.5 oz./bu. $\frac{1}{2}$	Seed treatment (slurry).
			Do not use treated seed for food or feed.
Cotton		1.5	Apply during rainy weather. Repeat at 10-14 day intervals. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.
		3.75	Apply to row at time of planting.
Cottonseed:			
Acid delinted		1.1 oz./100 lbs. $\frac{1}{2}$	Seed treatment (dry).
		1.1 oz./100 lbs. $\frac{1}{2}$	Seed treatment (slurry).
Machine delinted		2.9 oz./100 lbs. $\frac{1}{2}$	Seed treatment (dry).
		2.1 oz./100 lbs. $\frac{1}{2}$	Seed treatment (slurry).
			Do not use treated seed for food, feed, or oil.

$\frac{1}{2}$ Used with captan

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cranberries	7	6.0	Apply when plants show 5% bloom and repeat 2 weeks later, or at mid-bloom.
Cowpeas		1.1 oz./bu. ^{1/} 0.8 oz./bu. ^{1/}	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Cucumbers	7	3.0	No time limitations.
Currants	7	3.0	7 days.
Eggplants	7	3.0	No time limitations.
Endive	25	3.0	7 days.
Flax		1.3 oz./bu. ^{1/} 1.0 oz./bu. ^{1/}	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food, feed, or oil.
Gooseberries	7	3.0	7 days.
Grapes	7	3.0	7 days.
Hops	60	3.0	14 days.
Kale	25	3.0	7 days.
Kohlrabi	7	2.4	Do not apply after edible parts are half grown.
Lettuce	25	3.0	5 days on head lettuce. 7 days on leaf lettuce.
Loganberries	7	1.2	14 days.
Melons	7	3.8	No time limitations.
Mushrooms	7	0.07-0.1 lb/ 4000 sq. ft.	Apply to casing soil between breaks.
Mustard Greens	25	3.0	7 days.
Nectarines	7	6.5	40 days.

^{1/} Used with captan

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Replaces page issued 7-1-64

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ZINEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Oats		0.5 oz./bu. <u>1</u> / 0.5 oz./bu. <u>1</u>	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Onions	7	3.0	7 days on green onions.
Peaches	7	7.5	30 days.
Pears	7	7.5	7 days.
Peas	7	2.1 <u>1</u> /	Preplanting soil treatment.
		1.1 oz./bu. <u>1</u> / 0.8 oz./bu. <u>1</u>	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
		2.4	10 days.
Pecans		15.0	45 days.
Peanuts	7	1.3	No time limitations. Do not use treated peanut hay for feed.
Peppers	7	6.5	No time limitations.
Plums	7	6.5	30 days.
Potatoes		3.8	Foliage application only. No time limitations.
		1 lb./50 gals. water	Seed piece dip.
		0.15 lbs. act./ 100 lbs.	Apply as a dust over cut or whole seed pieces.
Pumpkin	7	5.0	No time limitations.
Quince	7	2.1 <u>1</u> /	40 days.
Radishes	7	2.4	No time limitations.
Raspberries	7	1.2	14 days.

1/ Used with captan

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rhubarb		4.0 ^{2/}	No time limitations.
Romaine	25	3.0	7 days.
Sorghum (hulled)		0.8 oz./bu. ^{1/}	Seed treatment (dry or slurry). Do not use treated seed for food or feed.
Soybeans		0.8 oz./bu. ^{1/}	Seed treatment (dry or slurry). Do not use treated seed for food, feed, or oil.
Spinach	25	3.0	7 days.
Squash			
Summer	7	5.0	No time limitations.
Winter			
Strawberries	7	3.7	7 days.
Sugar beets		2.0	30 days. Do not feed tops to livestock.
Swiss chard	25	3.0	7 days.
Tomatoes	7	3.8	No time limitations.
Turnips			
Roots	7	3.0	No time limitations.
Tops	7	3.0	7 days if tops are to be used as food or feed.
Walnuts (black)		13.5	No time limitations.
Wheat	1	2.1	3-4 weeks.
		0.5 oz./bu. ^{1/}	Seed treatment (dry or slurry). Do not use treated seed for food or feed.

^{1/} Used with captan

^{2/} Used in combination with ziram

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZIRAM*

PRINCIPAL FORMULATIONS: 7.6%, 10%, and 15% dusts;
23.7%, 76.0%, and 95.0% wettable powders; 8% paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1	6.1	Early cover spray--5 weeks after petal fall.
Apples	7	9.1	Cover sprays. No time limitations.
		12.0	7 days.
Apricots	7	7.6	Early cover sprays.
Bananas		8.0% (paste)	Brush application to cut stems or crowns.
Beans	7	3.0	Do not apply to snap beans within 4 days of picking.
Beets	7	3.0	7 days of harvest if beet tops are used as food or feed.
Blackberries	7	3.0	Mid-June to early July.
Blueberries	7	4.6	3 weeks after full bloom.
Broccoli	7	3.0	7 days.
Brussels sprouts	7	3.0	No time limitations.
Bush fruits	7	3.0	No time limitations.
Cabbage	7	3.0	7 days.
Cantaloupes	7	3.8	No time limitations.
Carrots	7	3.0	7 days if carrot tops are to be used as food or feed.
Cauliflower	7	3.0	7 days.
Celery	7	3.0	Remove excess residue by stripping, trimming, and washing.
Cherries	7	4.0	7 days.

*Zinc dimethyl dithiocarbamate

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Replaces page issued 7-1-64